

HOW TO DRAW

# MANGA

*Pen & Tone Techniques*



*Ryo Toudo*



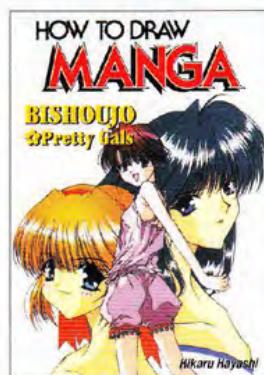
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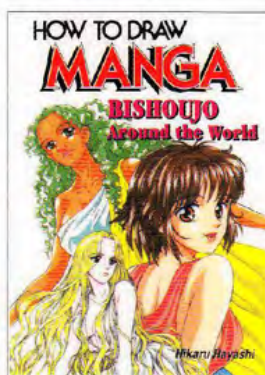
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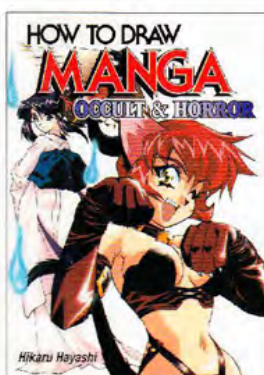
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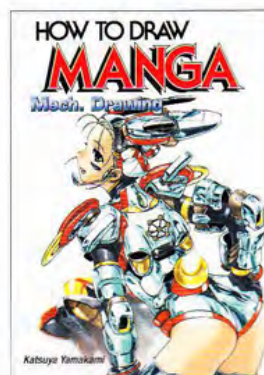
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# HOW TO DRAW **MANGA**

## Pen and Tone Techniques



HOW TO DRAW MANGA:  
Pen & Tone Techniques  
by Ryo Toudo

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## **A Word about the Book**

The most basic technical skills required for creating manga are without doubt penning and using screen tone. Even if you suddenly get the idea to draw manga using new materials or software, the original impetus spurring you to create manga in the first place was likely that image of yourself as the artist moving your ink-dipped pen rapidly across the paper, or that image of yourself carefully trimming the screen tone and with all your might pressing it down on the under drawing, or perhaps from that feeling of elation or desire to shout with joy at the image of yourself holding the completed artwork in your ink and glue caked hands after having expended sweat and tears on its creation.

This volume is not intended for professional artists, but rather for aspiring manga artists or those manga hobbyists who would like to try their hands at creating themselves. It offers thorough explanations of pen and screen tone techniques taking a fun and easy-to-understand approach. The author provides invaluable assistance to the readers based upon his lengthy years of practice as a manga artist and his bountiful experience in instructing aspiring manga artists.

We would like to express our gratitude to Art Color K.K. for supplying the specialized art paper for all of the original manga artwork used in this book. We would also like to extend our sincerest thanks to Too Corporation and Art Color K.K. who provided all of the other materials and tools used in the artwork for this book.



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# Pen Techniques

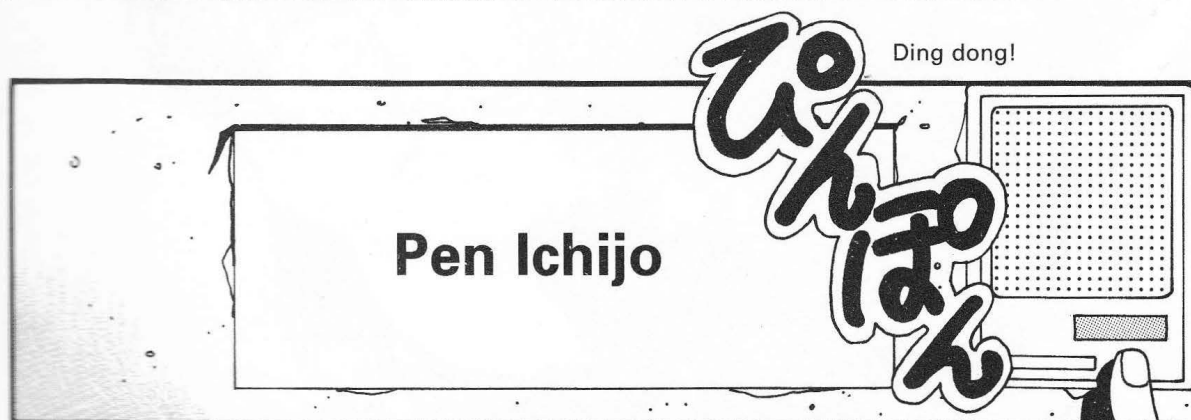
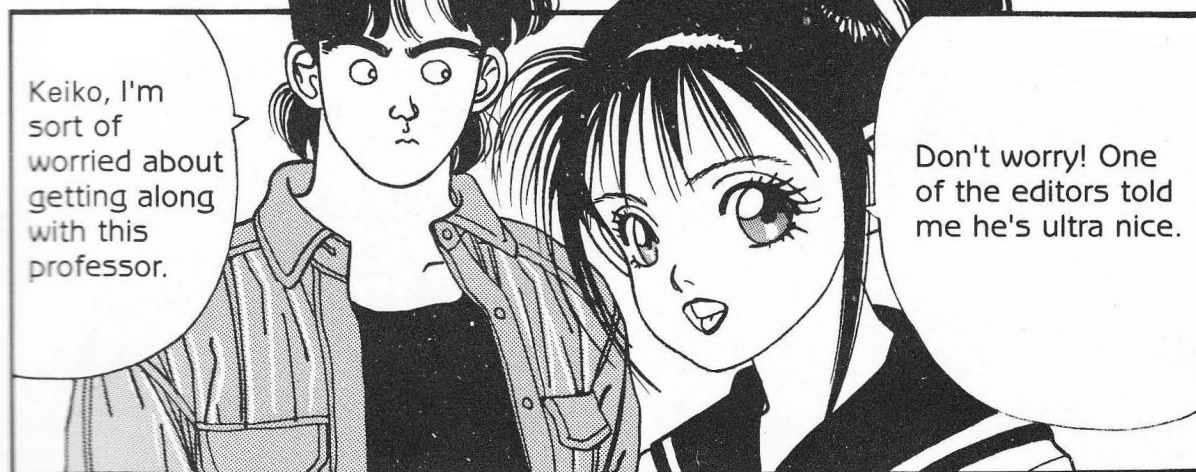




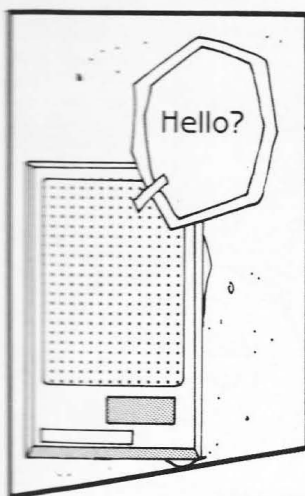
☆ When drawing the background, make an effort to evoke the sense of an inhabited space (i.e. that people actually live in the houses or town you are drawing).

The telephone wires, curtains, street signs, TV antennas, etc. generate

the sense of an inhabited space.



↑ What suggests inhabitation in this panel is the slightly soiled wall. Things touched frequently by hands tend to build up grime.



Hello?



This is, um...

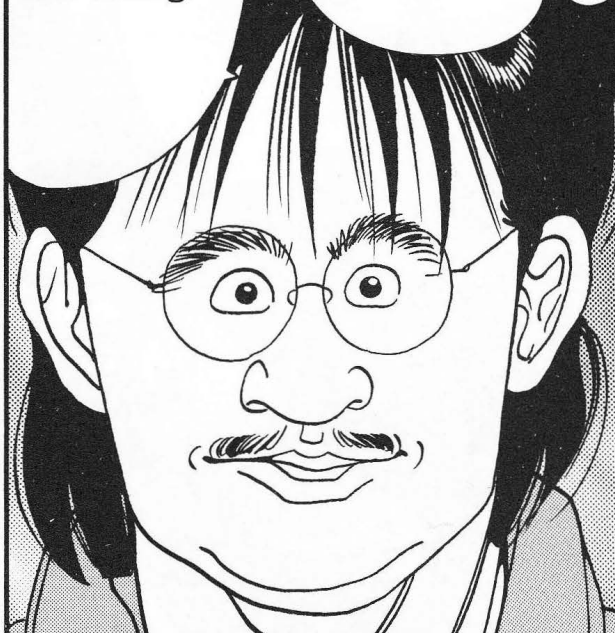
Um, hello.

がちゃ

Thump!

Keiko, right? I heard you were coming from Tashiro with editing.

I heard he told you that if you really wanted to become a manga artist, the first thing you would have to do is study how to use a pen.



That's correct. Thank you in advance for helping us out.

Also, let me introduce to you a classmate of mine, Manabu. I always like to have company with me, so I brought him along.



Thank you sir for helping us out.

Looking forward to working with you two.

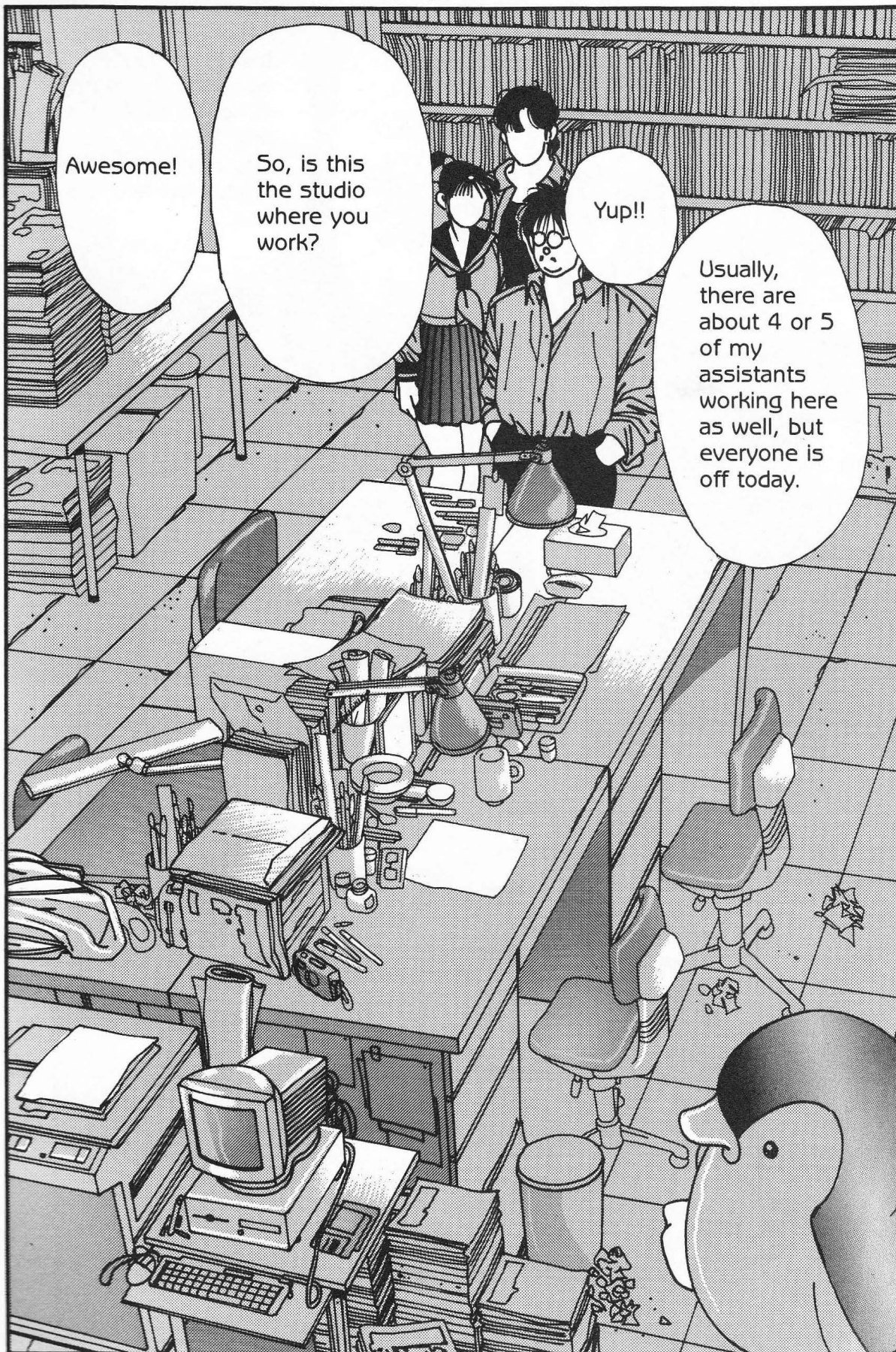
You should be glad for the opportunity.




← What suggests inhabitation in this scene is touches like the piled up old newspapers and magazines and the grime on the wall.



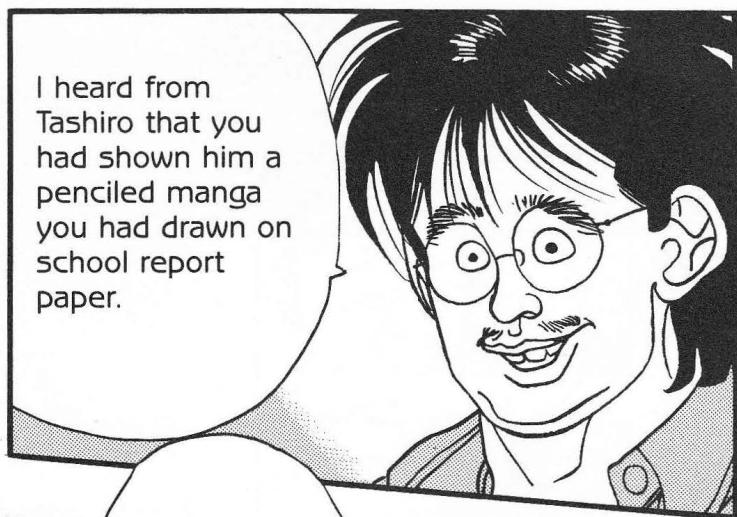
↓ Think carefully about proportions when drawing characters together with a background setting. The desks, bookshelves, chairs, and other objects in this scene all must be drawn in correct proportions.



**Q** What is a manga artist's studio really like? 



Wow!  
This is sooo  
exciting!!



I heard from  
Tashiro that you  
had shown him a  
penciled manga  
you had drawn on  
school report  
paper.



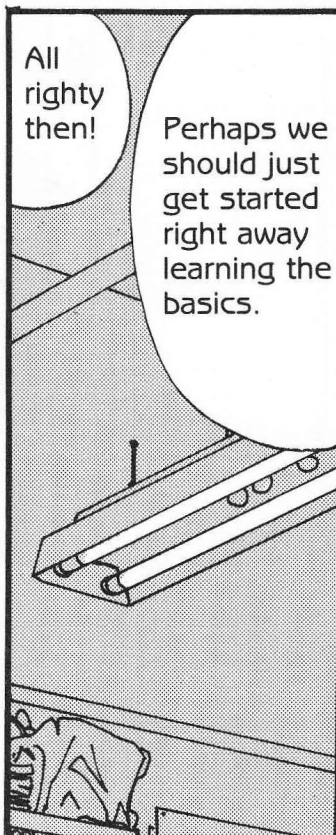
Yes!

That's right.  
I figured  
manga can  
be drawn on  
just about  
anything.



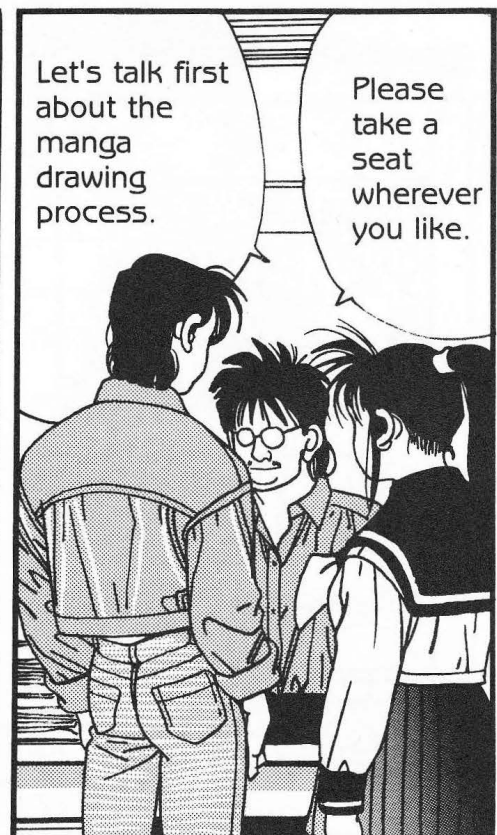
Well...

... it can be  
drawn on any  
kind of  
paper, but  
some papers  
are better  
than others.



All  
righty  
then!

Perhaps we  
should just  
get started  
right away  
learning the  
basics.



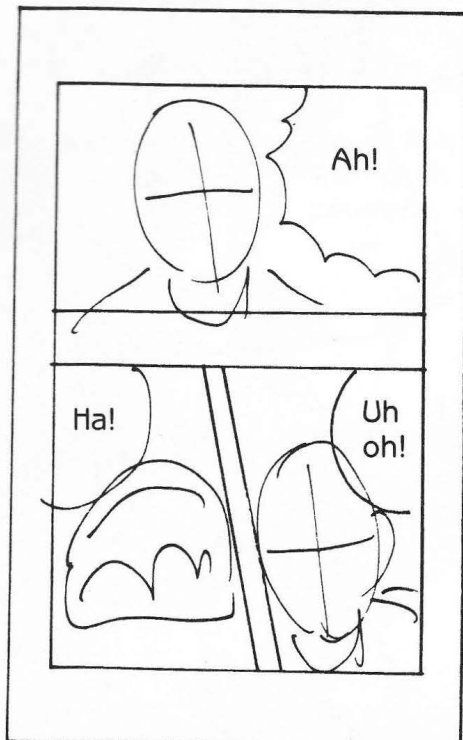
Let's talk first  
about the  
manga  
drawing  
process.

Please  
take a  
seat  
wherever  
you like.



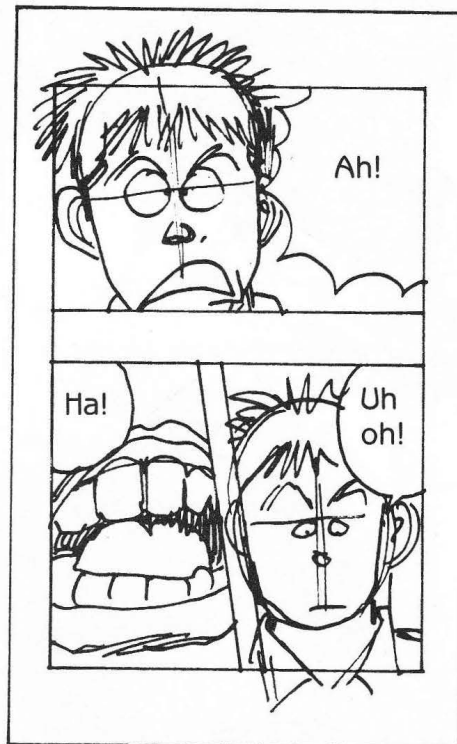
# The Manga Drawing Process

## 1 Establish the Page Layout



Establish the page layout (determine the placement of the panel frames and add speech balloons in order to develop the story).

## 2 Pencil in the Under drawing



Use pencil(s) to sketch the under drawing. (HB, B, and 2B leads are about a sufficient hardness. Leads that are either too soft or too hard will be difficult for you to erase.)

## 3 Ink the Figures



Trace over in ink those pencil lines best placed. Do not use slow, overly cautious lines when tracing. Be decisive and bold when inking.

## 4 Add in the Background



### 5 Erase as Needed



Don't erase the dialogue!

### 6 Spotting Blacks



Add solid black areas of ink for the hair or any other area that should be totally black.

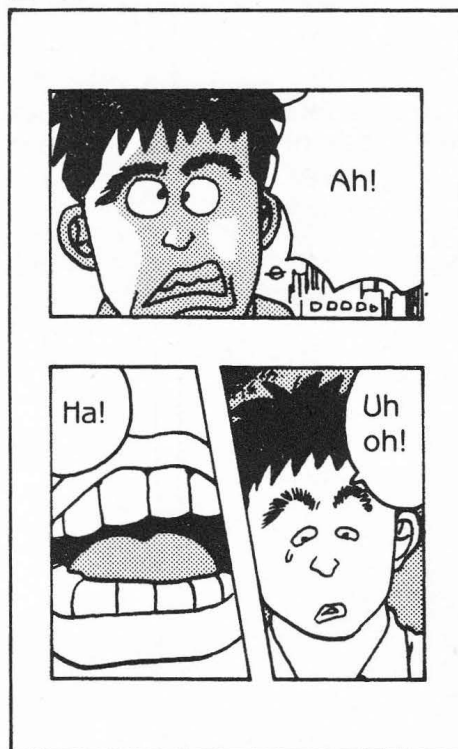
### 7 Erase as Needed



I cleaned up the smudge using white poster paint.

Clean up lines extending beyond the panel borders or smudges with white poster paint (white ink or correction fluid can also be used). (When inking artwork, some artists who tend to have few lines extending outside of the panel borders add screen tone before doing touch ups with white poster paint.)

### 8 Lay Down the Screen Tone, and Voilà!

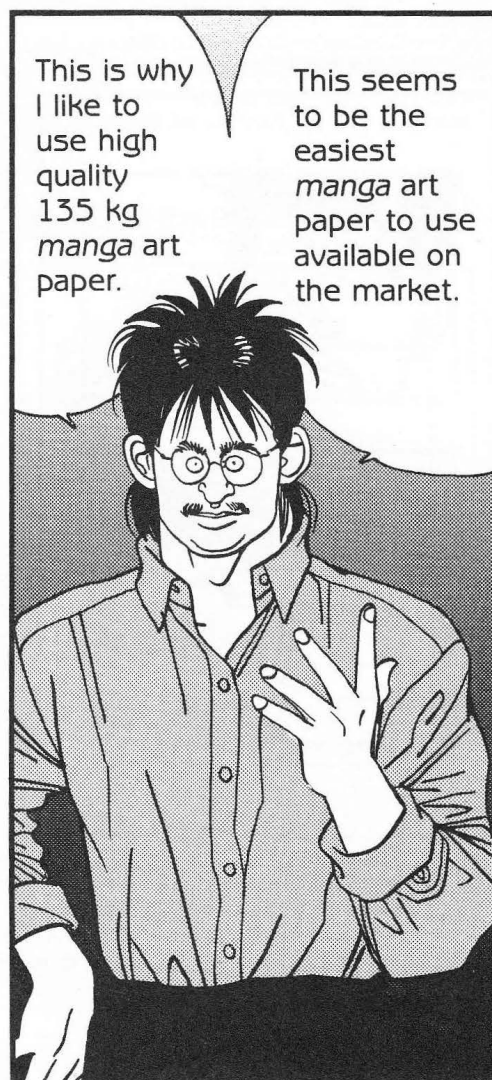
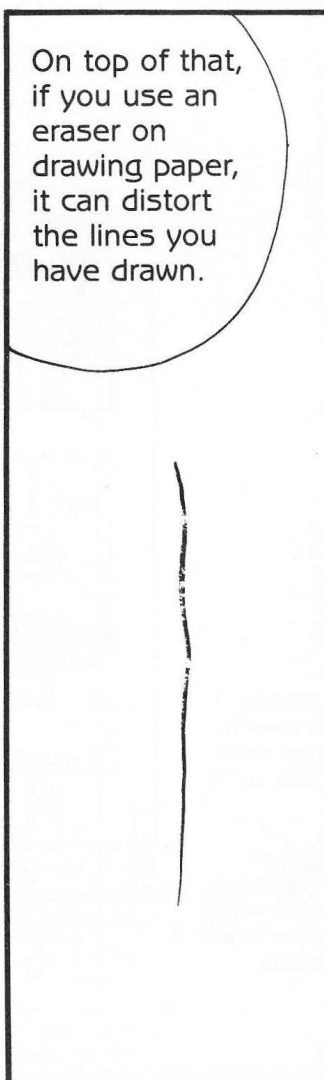
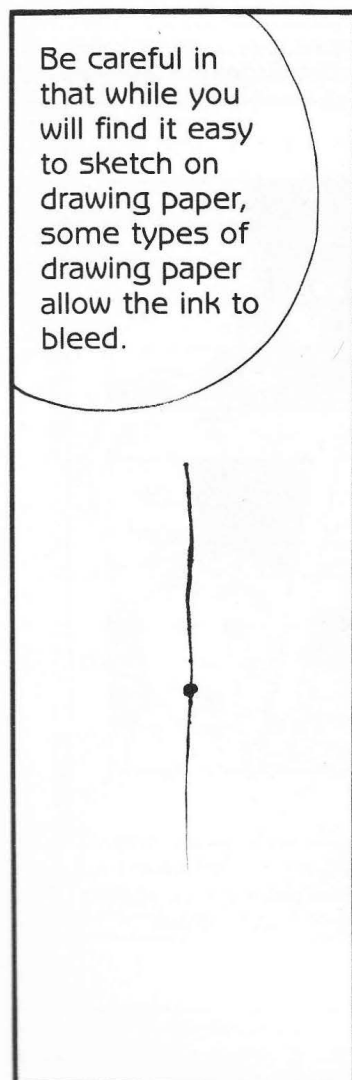
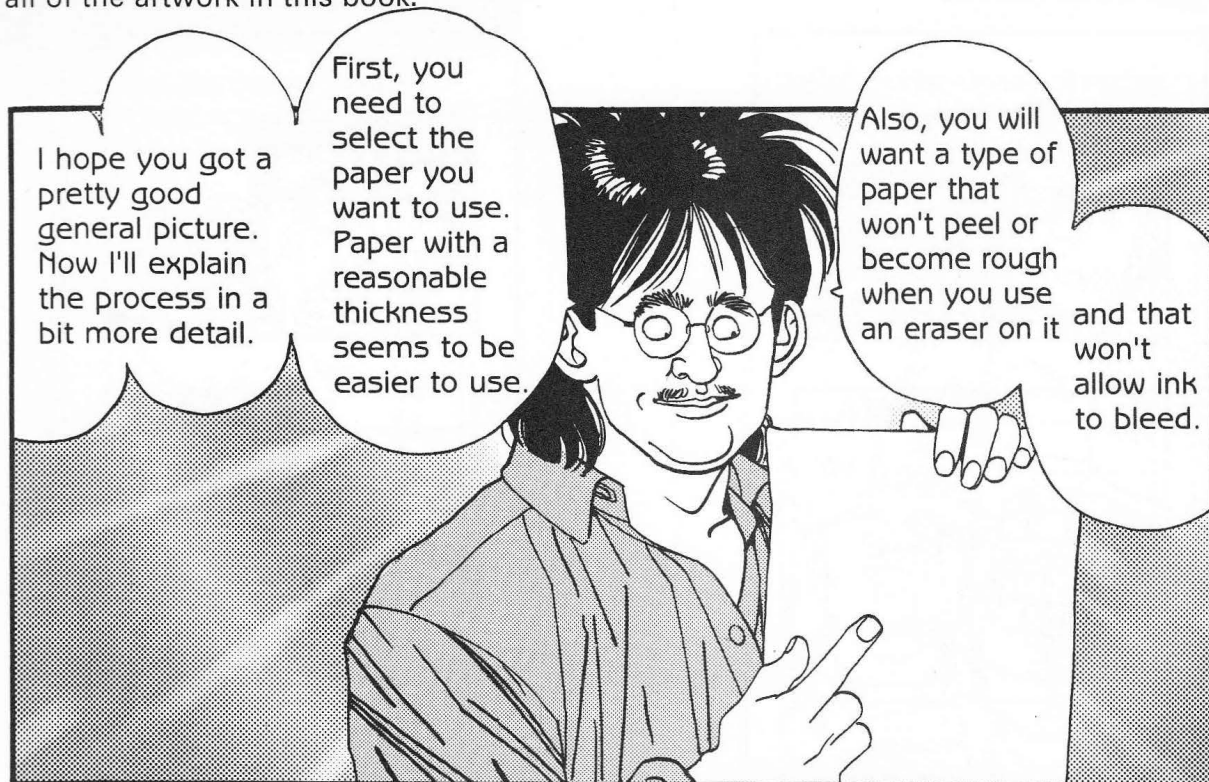


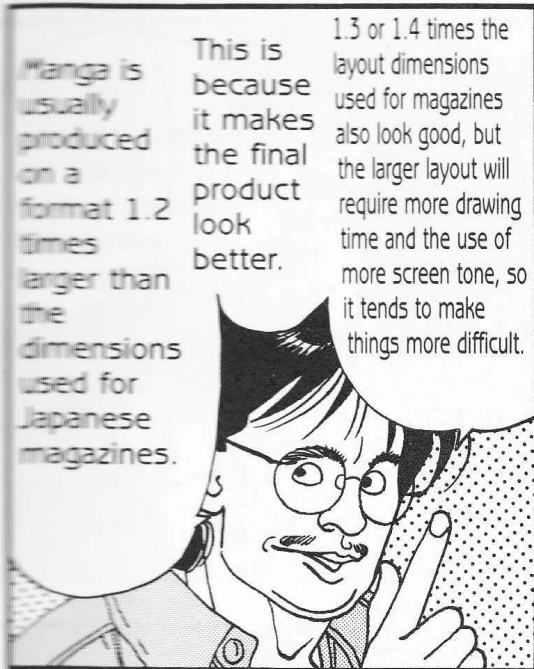
Don't worry about tracing penciled lettering in ink. The publishing company will redo any lettering in typeface.

**A** Pencil anything you are able to ink yourself later. I leave out eyes, mouths, and noses when I am drawing small panels. This is because I can easily just jot down the position for their placement (by just penciling some form of marking) and add them later in pen.

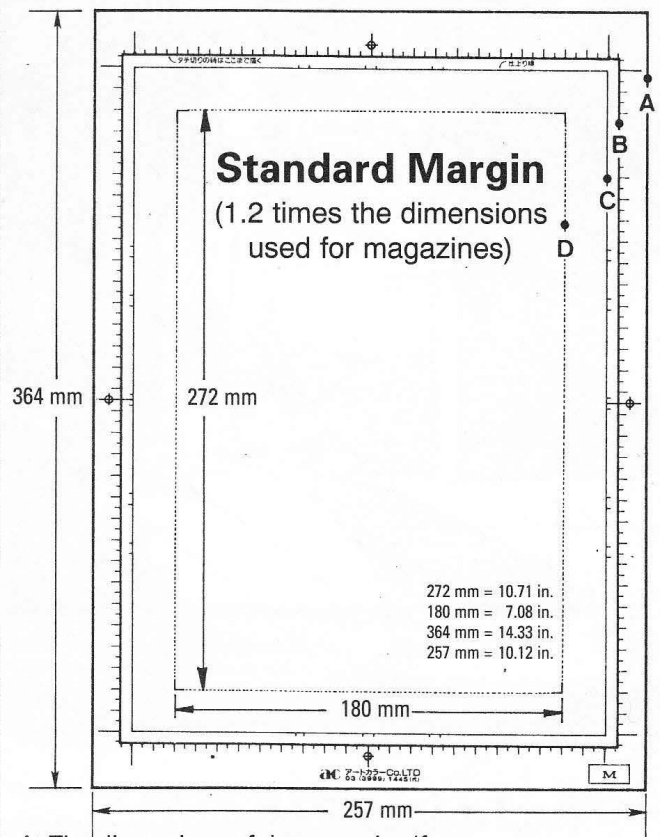


Art Color high quality 135 kg manga art paper was used to produce all of the artwork in this book.





## B4 Sized Art Paper



A: The dimensions of the paper itself

B: Do not draw any further than this point if you are planning on cutting off the margin.

C: Outside margin. finishing touches are not added beyond this boundary.

D: Inside margin—this is the standard margin used for dividing panels, etc.

B5 (25.7 cm X 18.2 cm or 7.17" X 10.12") is the typical format used for manga, and is also the format of this book. In the case of this book, all printing is contained within 22.6 cm X 15 cm (8 7/8" X 6") margins.

**A** Approx. 90 to 135 kg/m<sup>2</sup> (approx. 198 to 297 lbs/yd<sup>2</sup>) makes for a satisfactory thickness. If the paper is overly thin, it may cause the paper to ride up or wrinkle when you use an eraser. Likewise, the ink may bleed through to the other side of the paper. Still, there are some artists who swear by drawing paper because they like the way the pen glides over the surface. One of the artists likes to use paper about the same thickness of copier paper. But this is again just a preference.

Well then, let's move on now to our discussion of pens and different types of strokes.

When I say "pen," I am actually referring to a wide assortment of drawing instruments used by the manga artist.

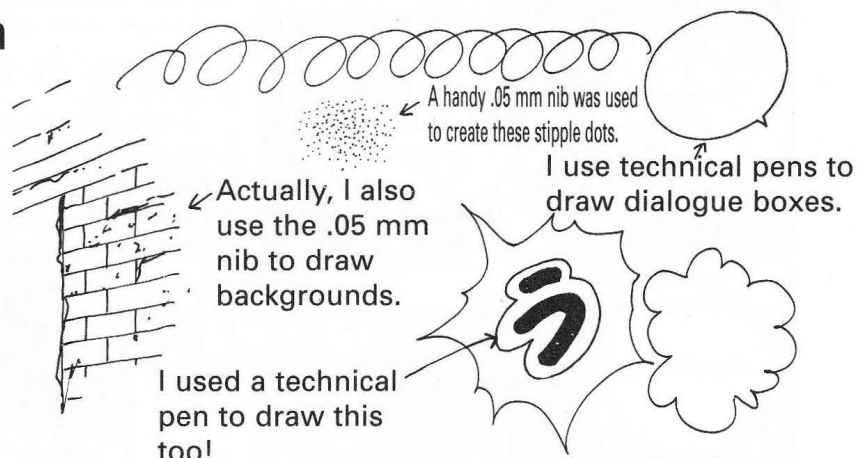
## Types of Pens



### Technical Pen

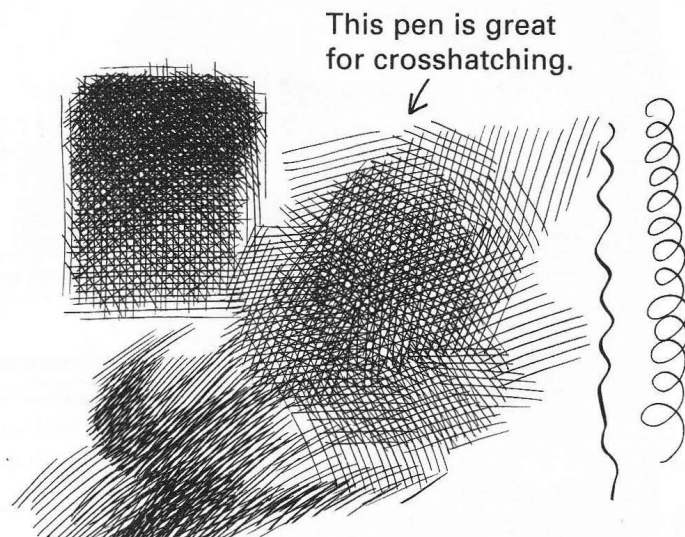
The lines tend to be even, which makes drawing a breeze.

The various drafting supplies companies put out an assortment of pens. Try them out and pick the ones you like best.



### School Pen

The school pen is similar in appearance to the "G-pen," but quite unlike the G-pen, the school pen feels "stiff" and does not glide smoothly over the paper.

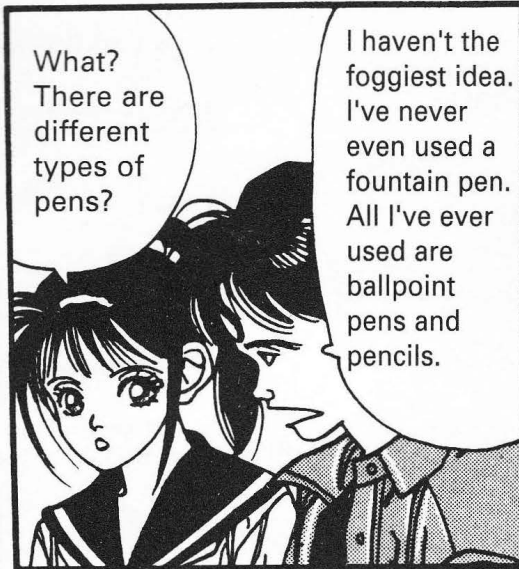


**Q** About how long does a nib last?



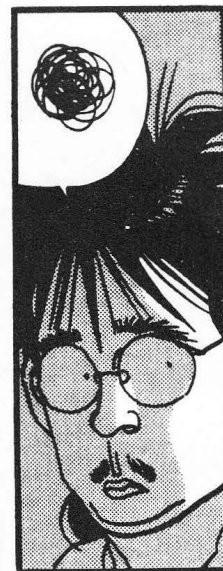


What pen types do you know?



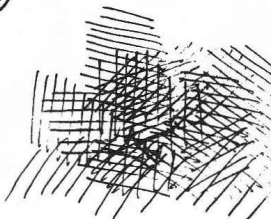
What? There are different types of pens?

I haven't the foggiest idea. I've never even used a fountain pen. All I've ever used are ballpoint pens and pencils.

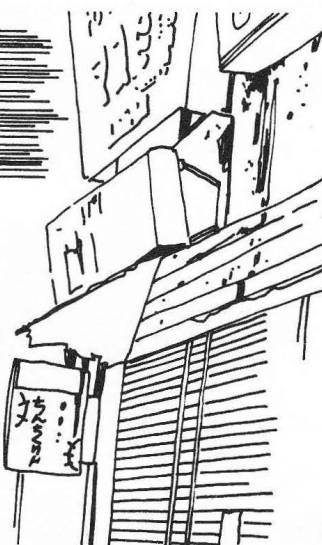


Recently, some artists have even been using technical pens to draw characters.

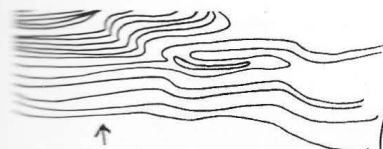
The technical pen can produce lines like these as well. It's a handy-dandy little tool.



The lines the pen draws do tend to lose clarity if you draw too quickly with it, so it isn't suited for crosshatching.



Since the school pen is stiff, it produces a clean, even line.

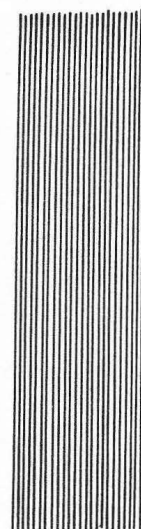


The school pen makes drawing wavy lines like these easy as pie.

A thin, even line does tend to result in a stiff, dispassionate image, but I don't mind it.

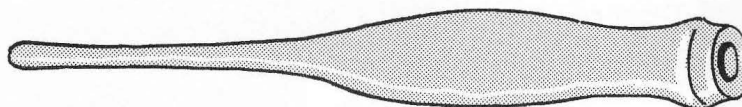


Wood grain is a cinch as well!

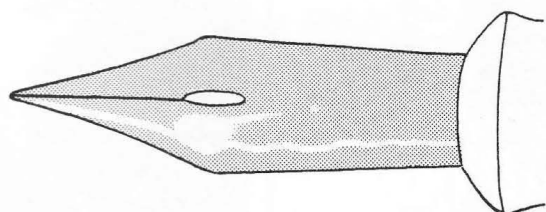


**A** If you bear down when you use the pen, the nib will soon become dull. Conversely, if you use a relatively light hand, the nib should keep for a while. I went through about 5 to 6 nibs to produce the artwork on page 20. Here is a funny fact for you: *Manga* artist S claims that *manga* artist M's used nibs are the best for drawing and swears that he doesn't know what he'll do if M ever quits being a *manga* artist.

## Maru Pen (Crow Quill Pen)



I have a penholder exclusively for use with the maru nib.

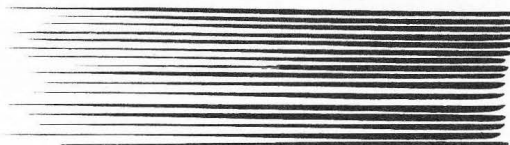


This pen is superb for drawing thin lines.

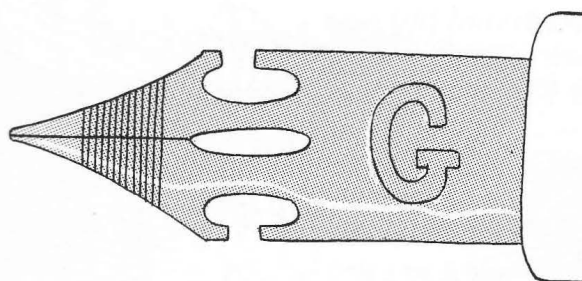


The *maru* pen produces lines more smoothly than the G-pen. Those who use the *maru* pen nib claim it's extremely versatile, but first-timers may experience some difficulty with the nib initially.

Lines like these are a snap with the *maru* pen.

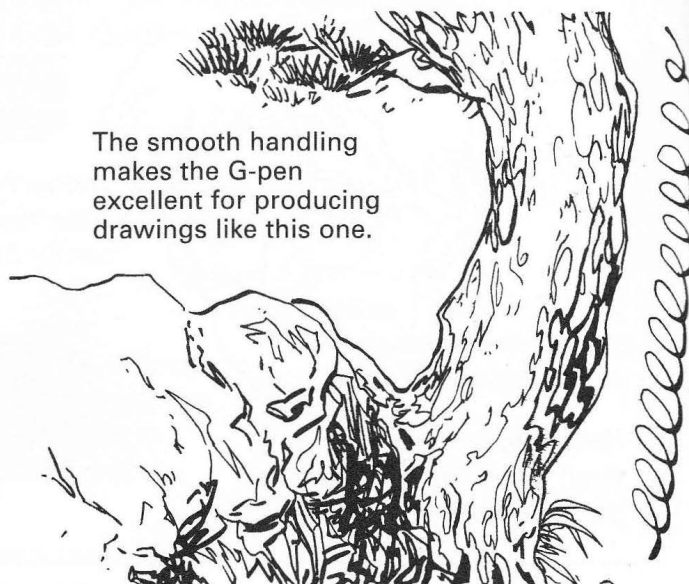


## G-pen

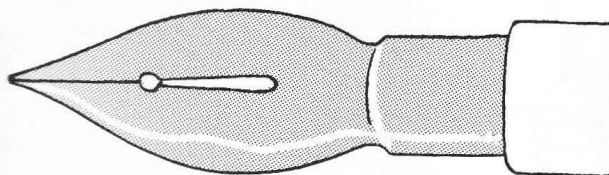


This is the nib *manga* artists use most commonly.

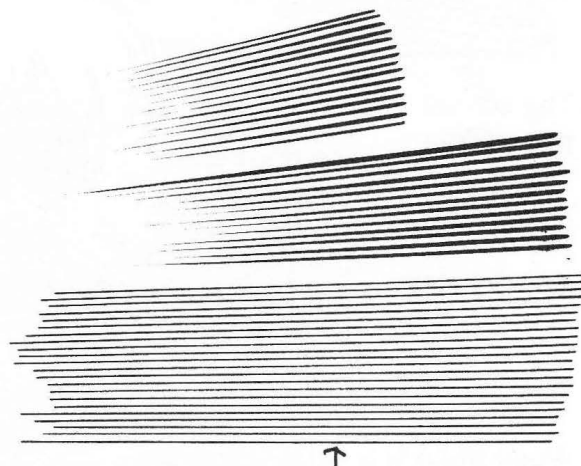
The smooth handling makes the G-pen excellent for producing drawings like this one.



## Kabura Pen (Spoon Pen)



This is probably the easiest nib to use for beginners. The pressure put on the nib affects the smoothness with which the pen writes and allows for clean, sharp lines.



The *kabura* pen is terrific for lines like these.

**Q** When drawing a given character, will a *manga* artist use different pen nibs for the outer contours of the face, the clothing, etc.? 

It also makes drawing hair a relative breeze.

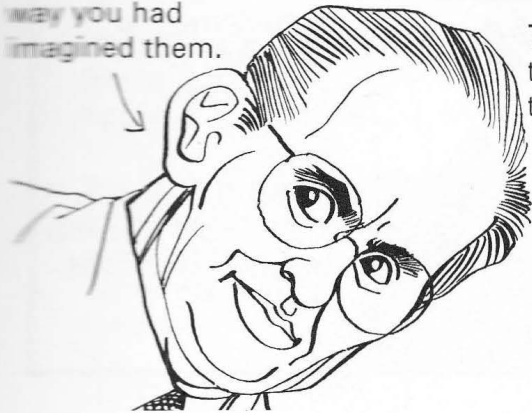
The *maru* pen is also suited to ink drawings.

And, it allows you to create heavier lines effortlessly.

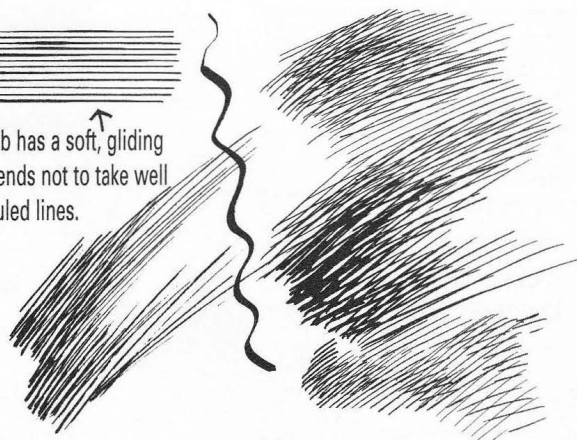


All pen nibs other than the *maru* pen nib share the same grip.

The G-pen will allow you to draw characters just the way you had imagined them.



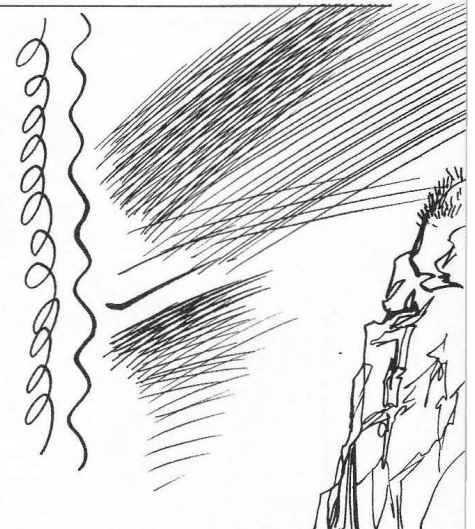
The G-pen nib has a soft, gliding touch, so it tends not to take well to drawing ruled lines.



The G-pen is perfect when scratchy lines are desired.



The *kabura* pen is multifunctional. I use the "Nume" nib for this pen. Still, once you become accustomed to the nibs, none of them will be hard to use.



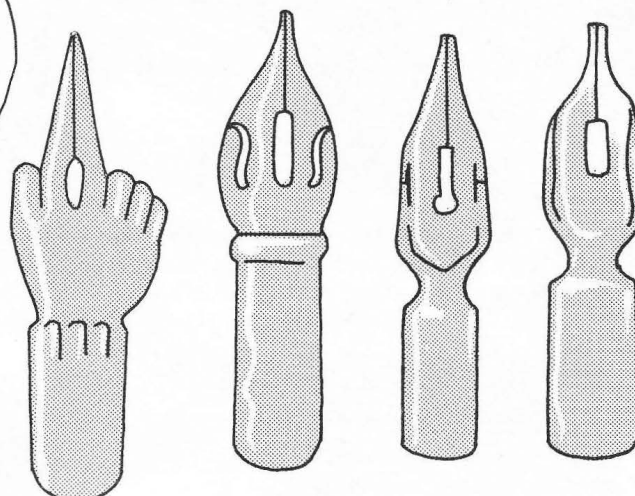
The *kabura* pen also allows for strokes like these.

**A** Some do, yes. In my case, I find it too much of a nuisance, so I don't bother. But, *maru* pen is probably the best pen to use for drawing hair (e.g. when drawing white hair).



There are many other nibs than what I have mentioned here, so it's important that you see what is available at your nearest stationery store or art supplies shop to find out which nibs best suit your needs.

However...



...previously I had a favorite nib that was produced by a foreign manufacturer, but the retailer then stopped importing the nib, leaving me in a lurch.

So...

I recommend becoming accustomed to whatever is consistently available at your neighborhood stationery store. That would probably be your safest bet.

Professor Pen, does *manga* have to be drawn with a pen?


Are you kidding? Obviously it does!

Not necessarily.

You could even use your finger.

Any instrument is sufficient, provided that it allows you to create dark, clear strokes.

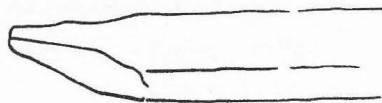


**Q** There are inks that become water resistant once dry. However, are these inks appropriate for *manga*? In addition, is it safe to use *sumi* (India ink) that is several years old? 

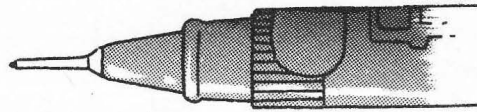
## More Pens:



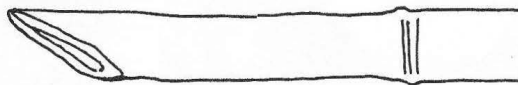
Sometime in the future it may become acceptable to draw *manga* in pencil. However, today artists are still required to use either black ink or India ink.



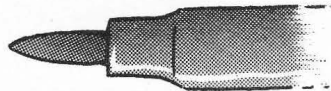
A pen created from whittling and shaving a chopstick



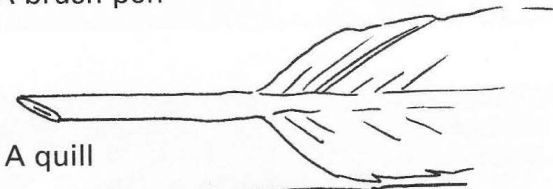
A technical pen



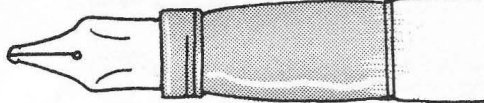
A bamboo pen



A brush pen



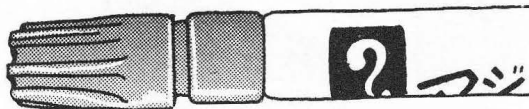
A quill



A black fountain pen

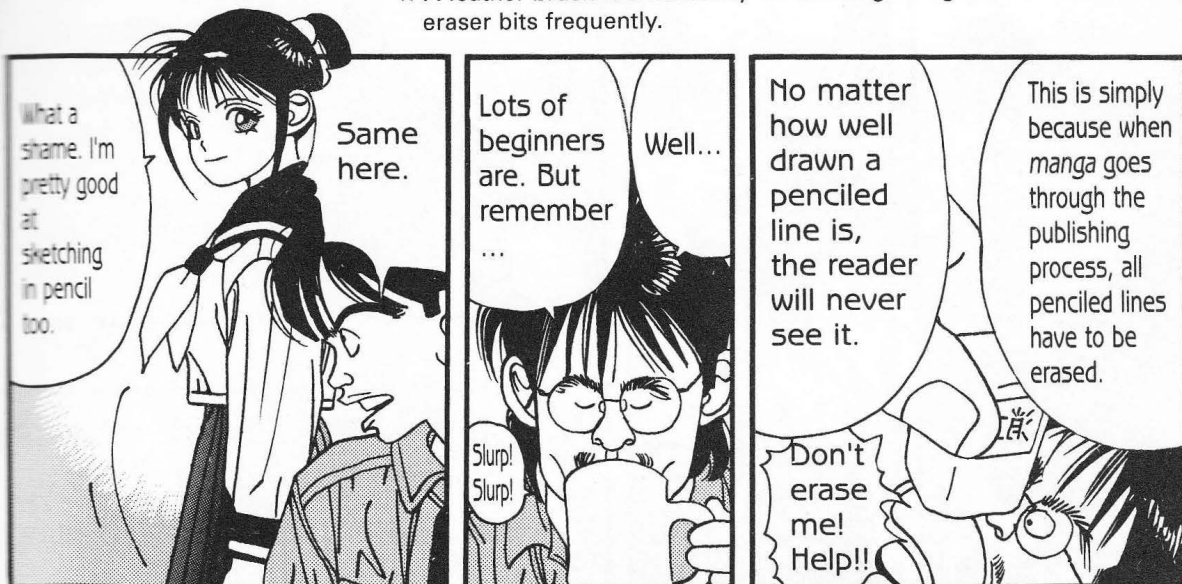


A toothpick



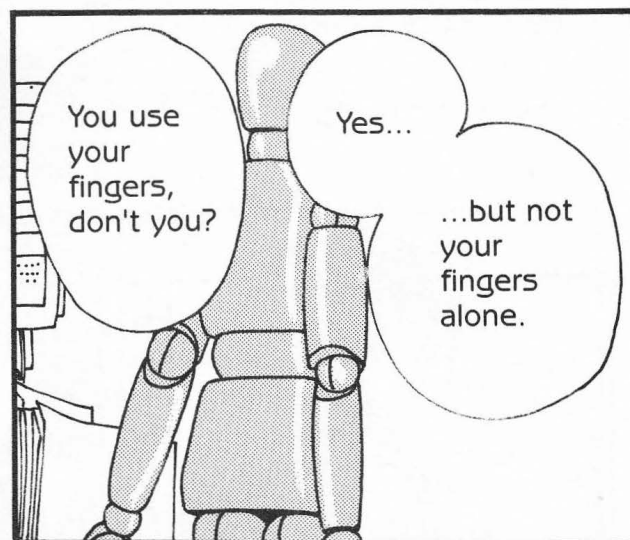
A felt-tip marker

☆ A feather brush is a necessity for drawing *manga*. Be sure to clean up eraser bits frequently.

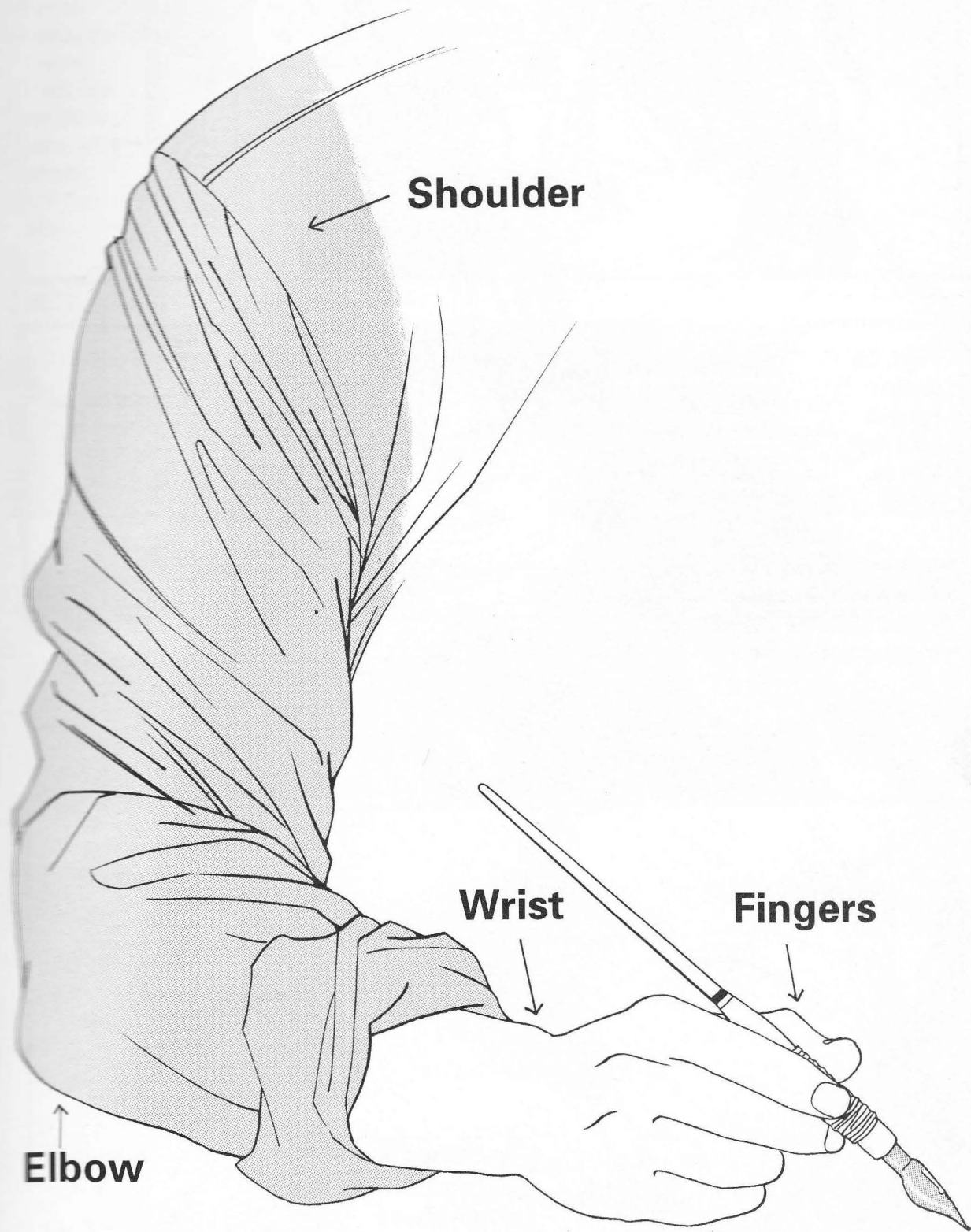


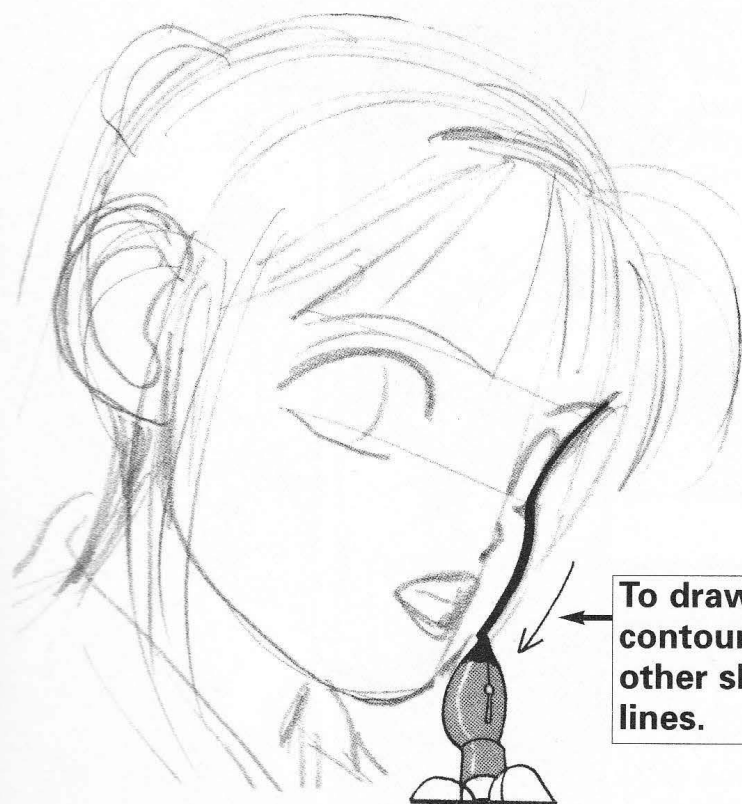
**A** Often, water-resistant inks tend to be better. However, I suspect that they cause the pen nibs to wear down faster. If you are going to use *sumi*, then you really should use something new and fresh. Still, I think *sumi* that is only about 1 to 2 years old should work well.

☆ *Manga* is really drawn with the artist's whole body. If you practice drawing properly, you will find yourself able to produce more confident brushstrokes.





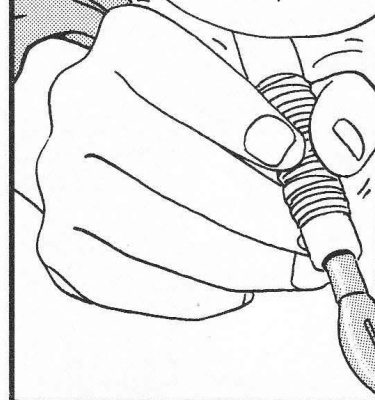


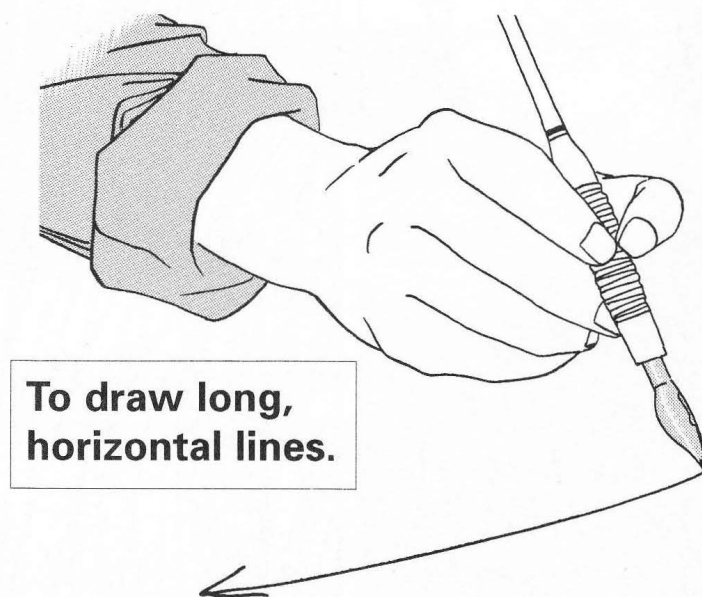
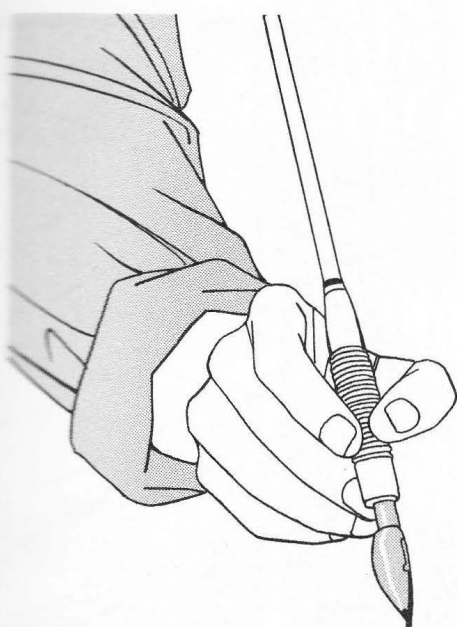
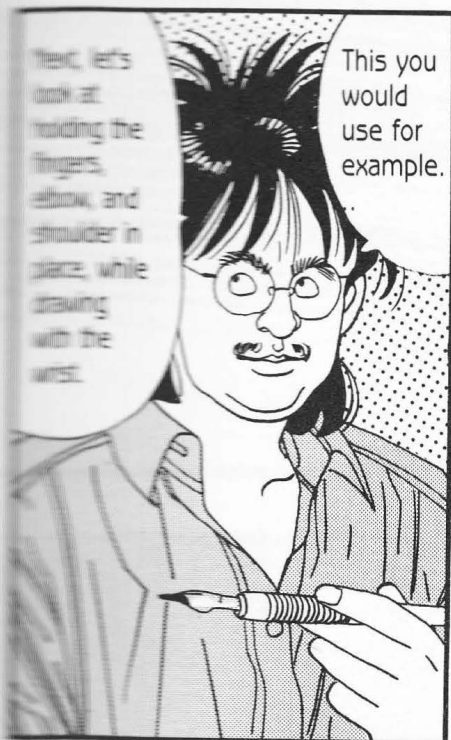


← To draw face contours and other short lines.

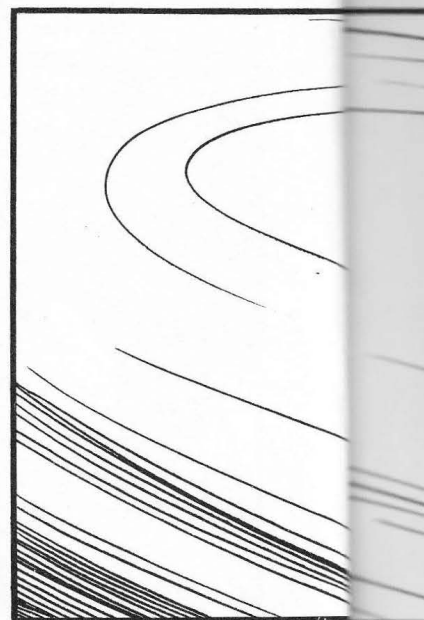
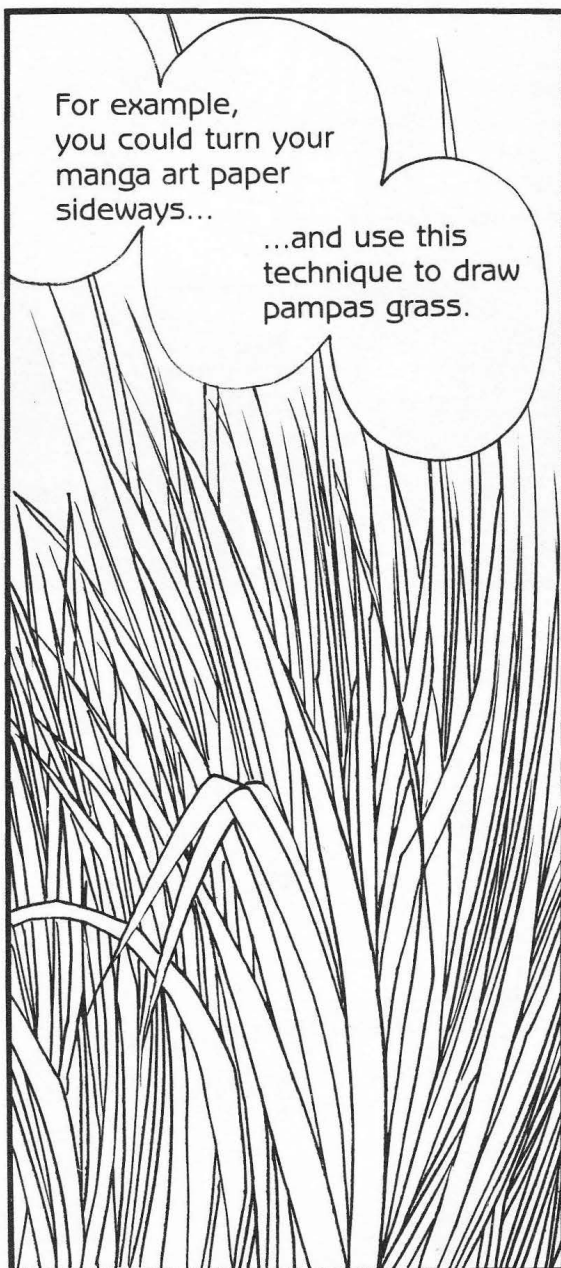
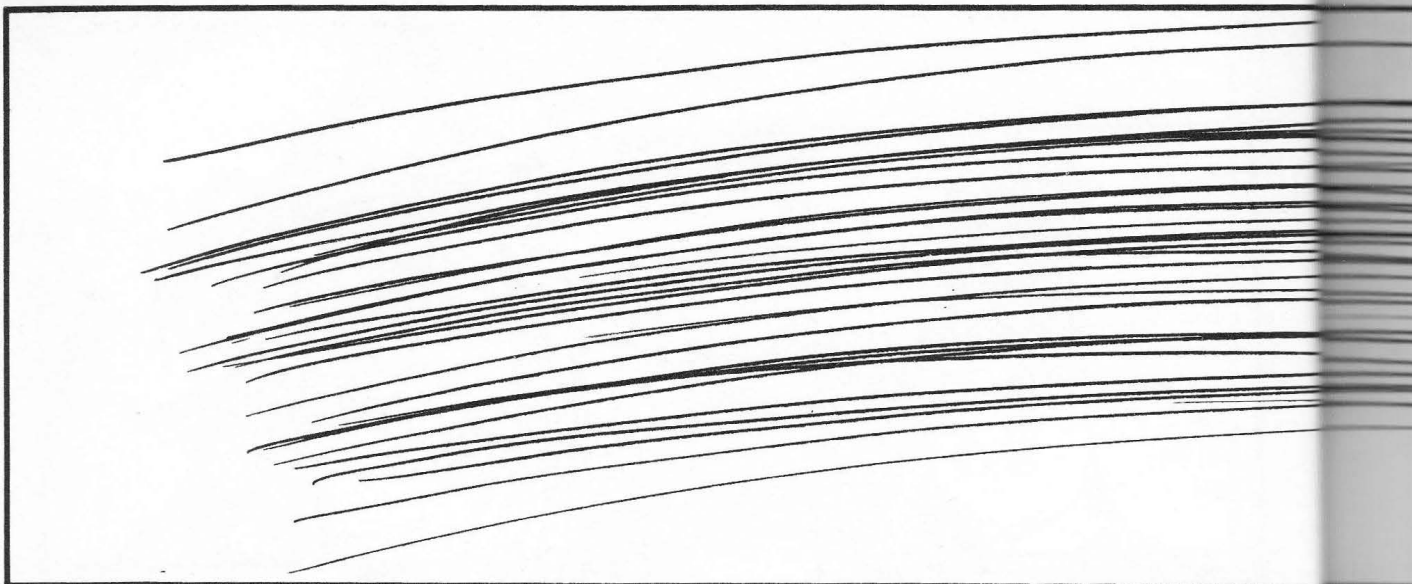
The shoulder, elbow, and wrist are all held relatively in the same position (i.e. don't move), while the drawing is done with the fingers. Use the same movements as when writing.

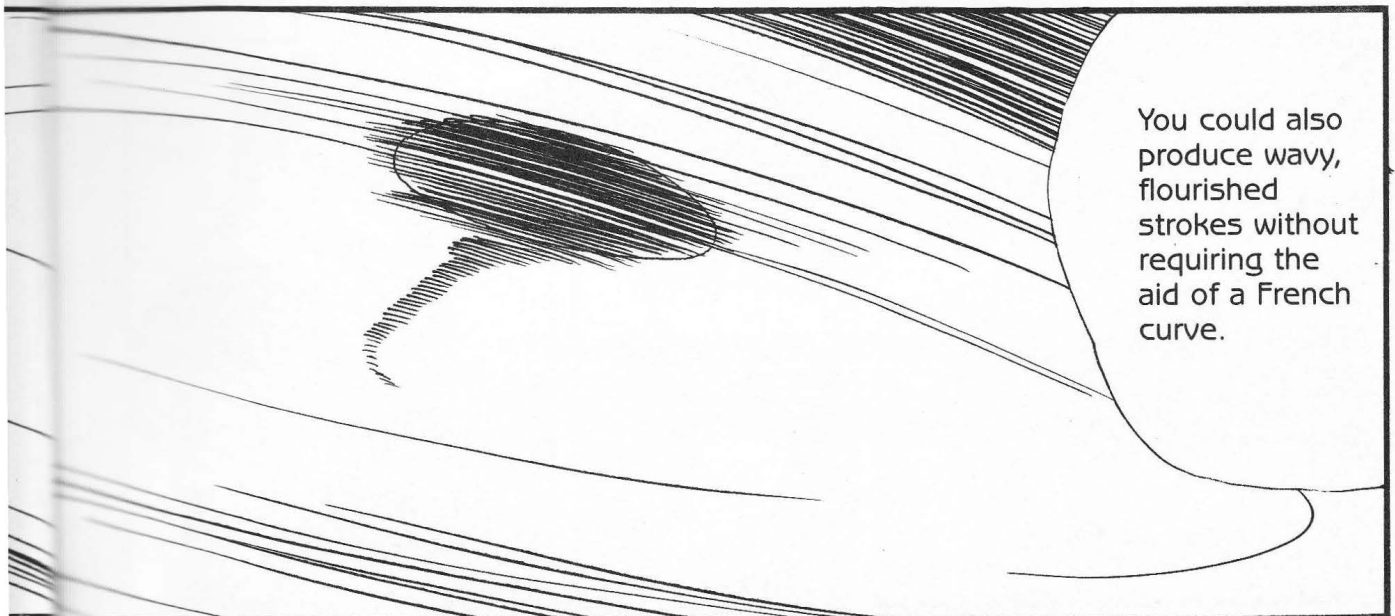
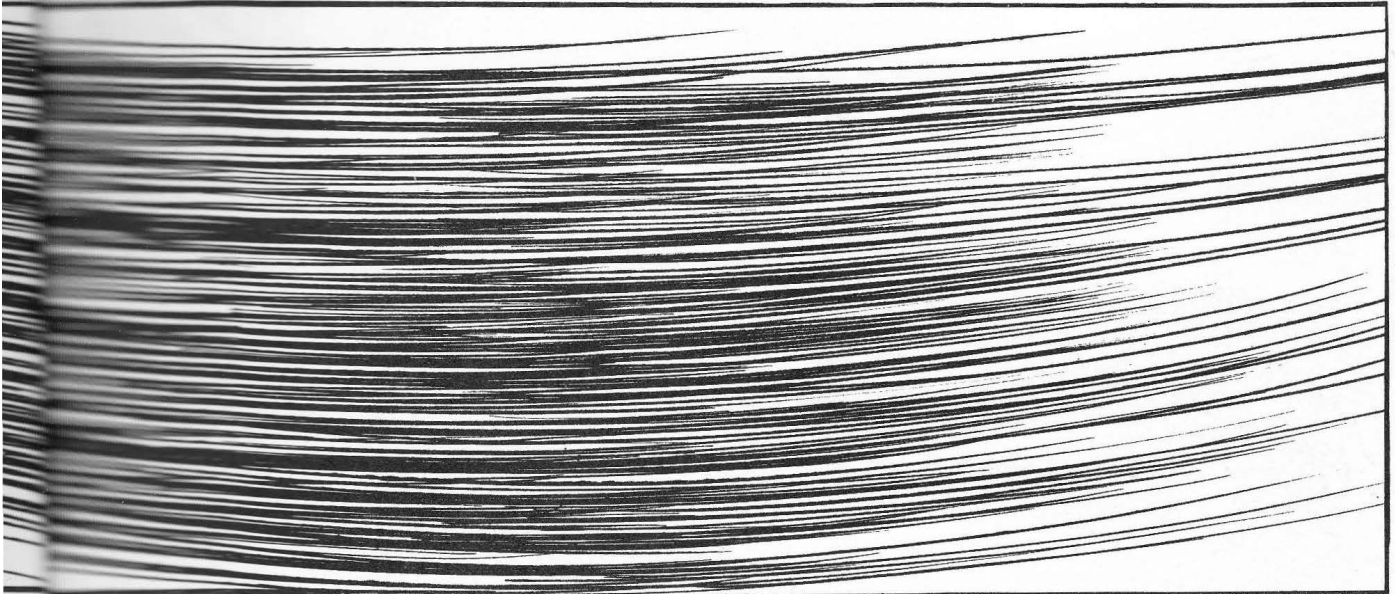
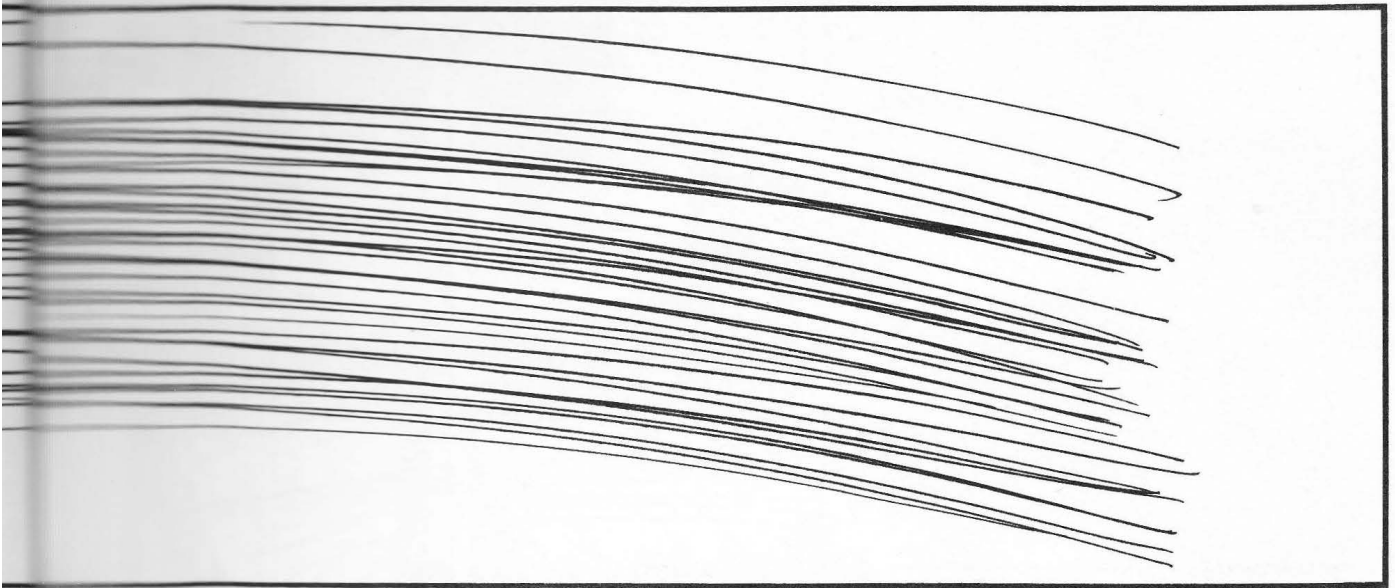
This way of moving the pen would be used for example...



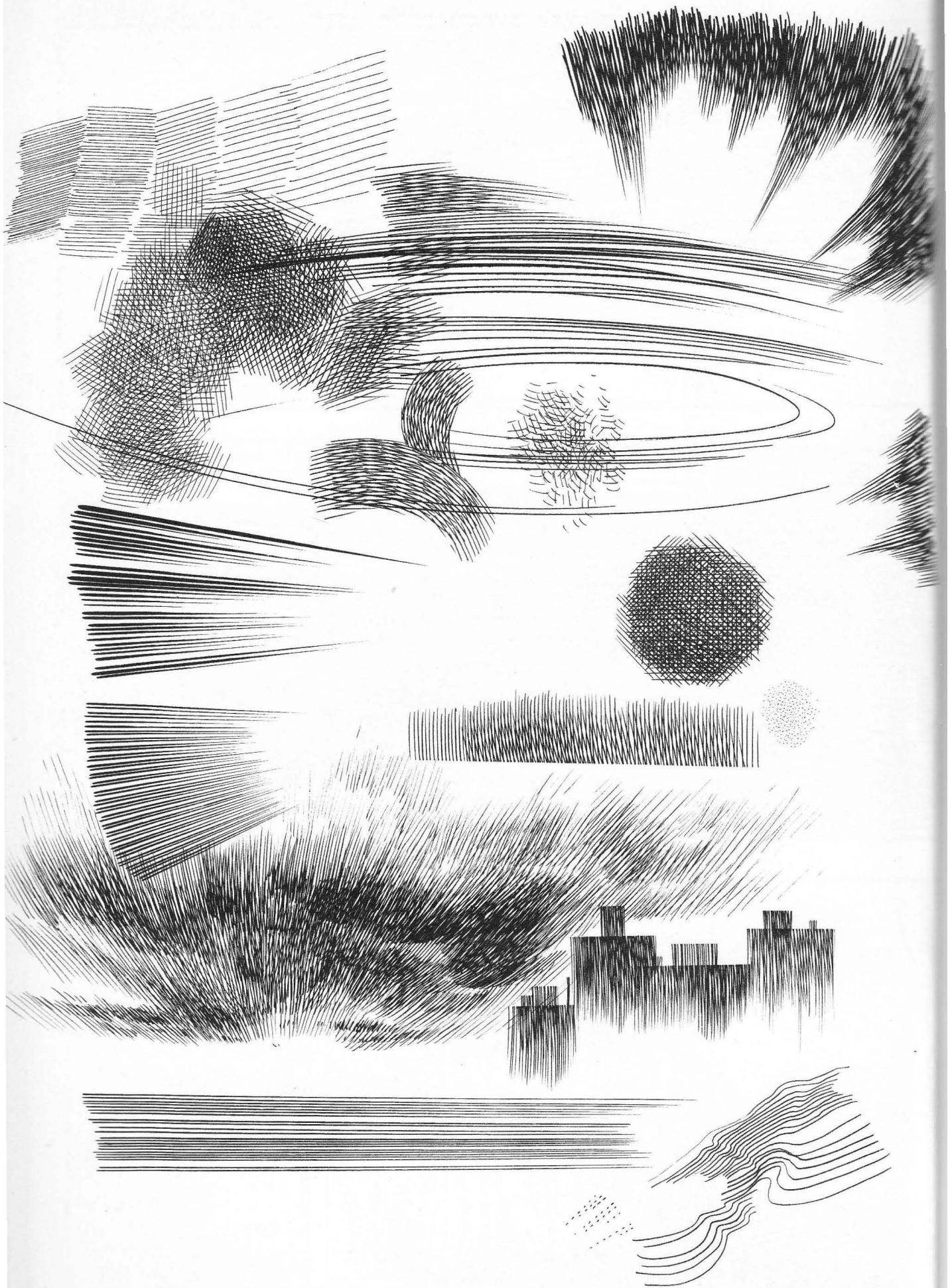








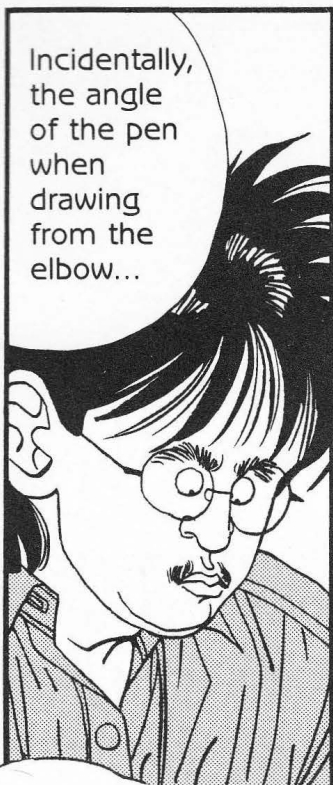
You could also produce wavy, flourished strokes without requiring the aid of a French curve.



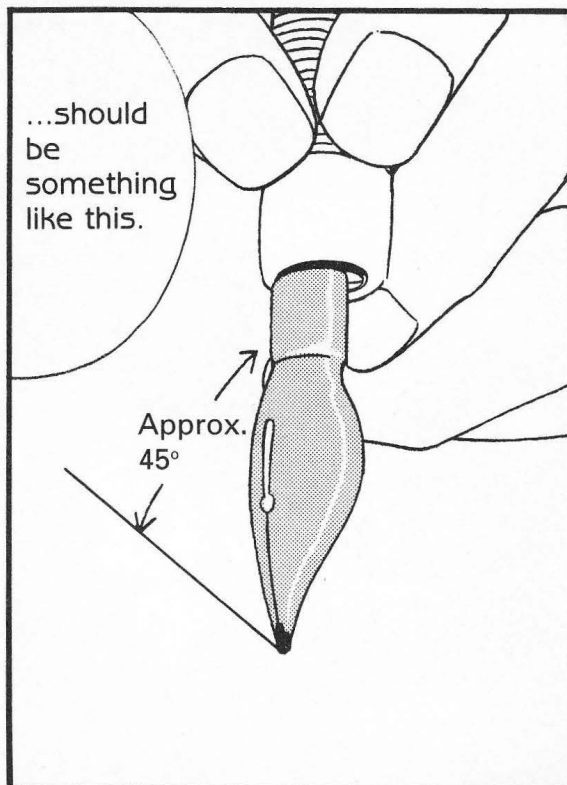




Wow! You could draw just about anything!



Incidentally, the angle of the pen when drawing from the elbow...



...should be something like this.

Approx.  
45°

Again, this varies. Try a number of angles until you find the position that best suits you.

An angle I find comfortable may not necessarily be the same angle everyone else finds comfortable.

**かたん** Clunk

So, this wraps up our discussion on holding the pen and drawing.



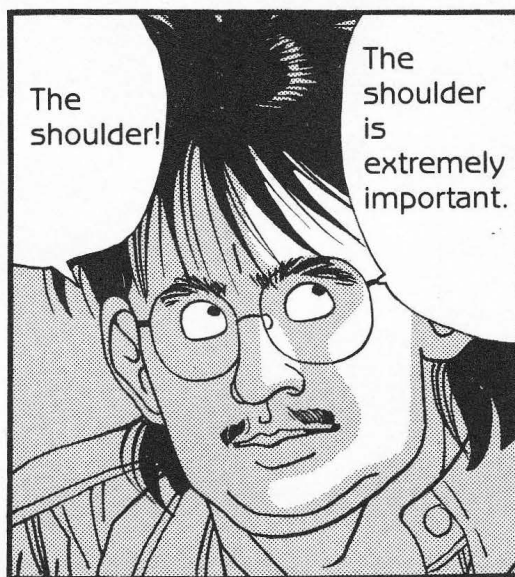
Prof. Pen!

Give me some lines too!

What about the shoulder?

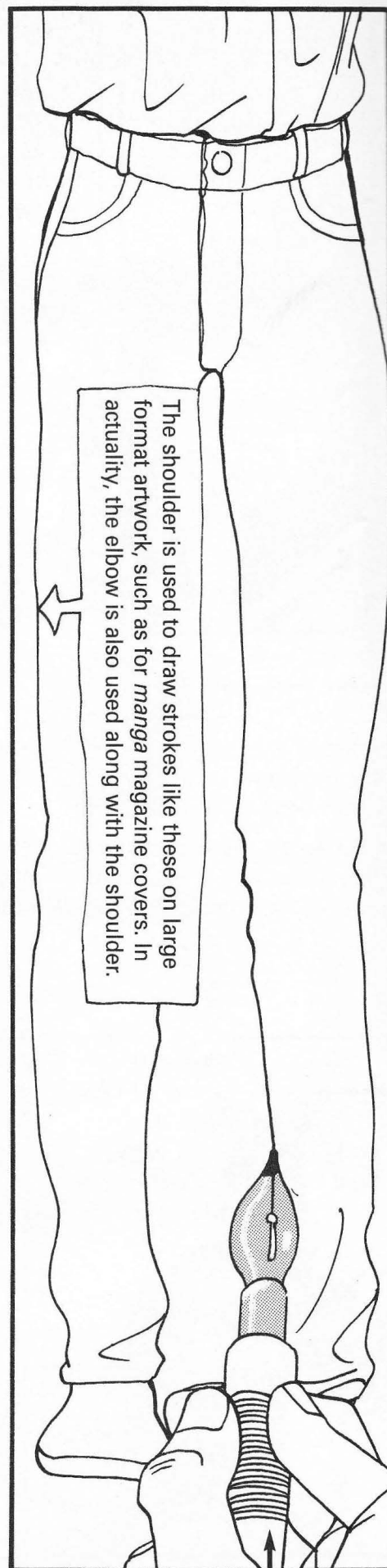
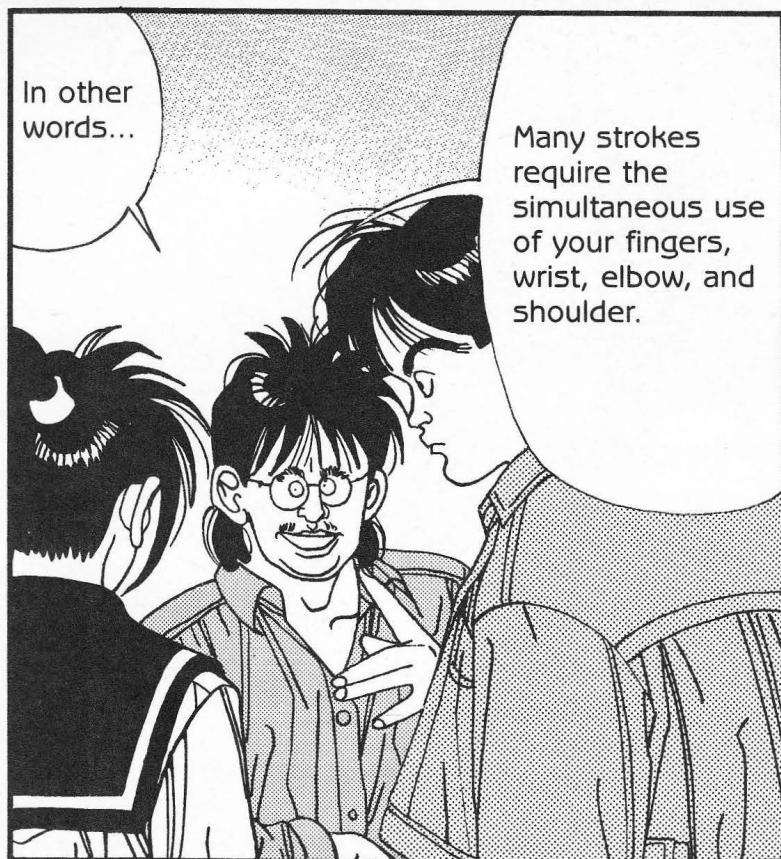


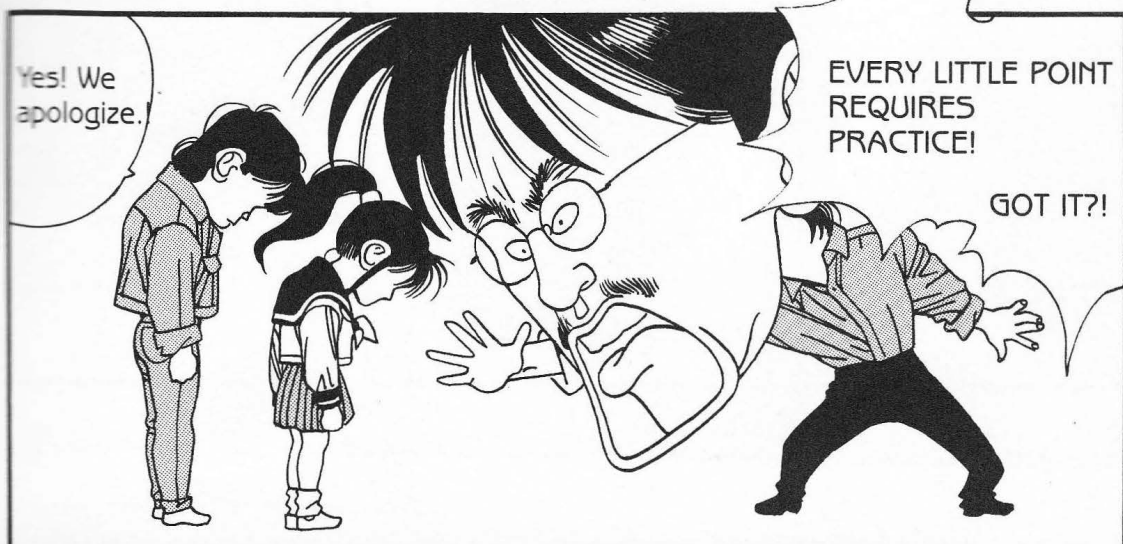
Huh? Oh yeah!



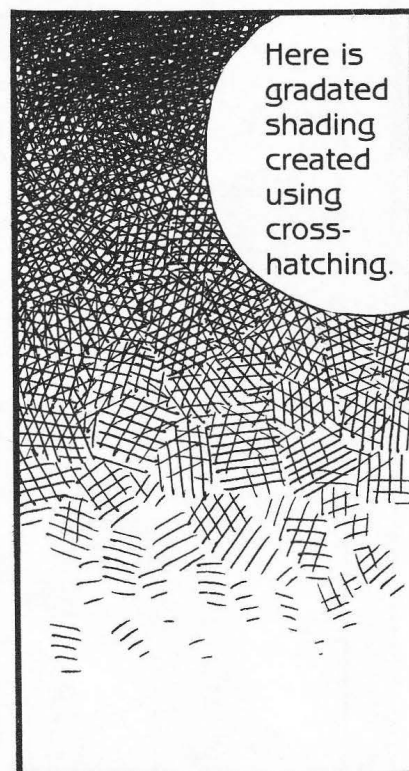
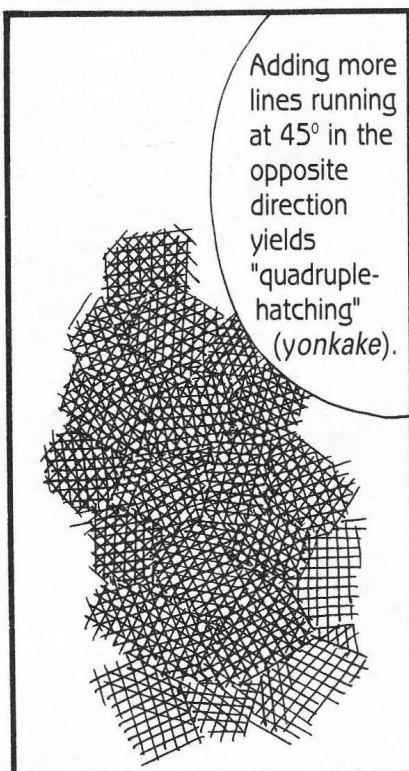
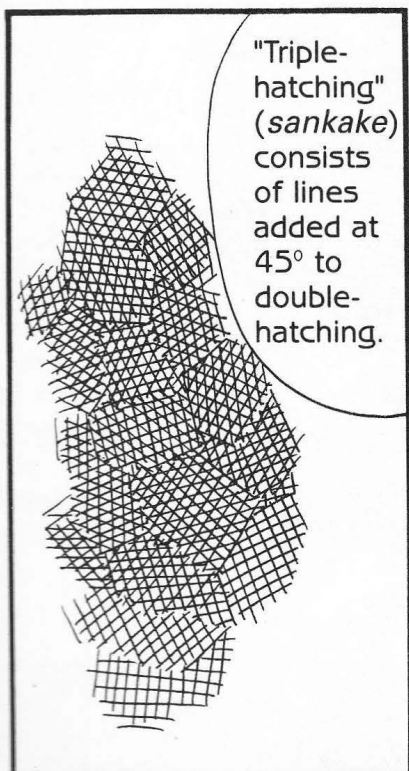
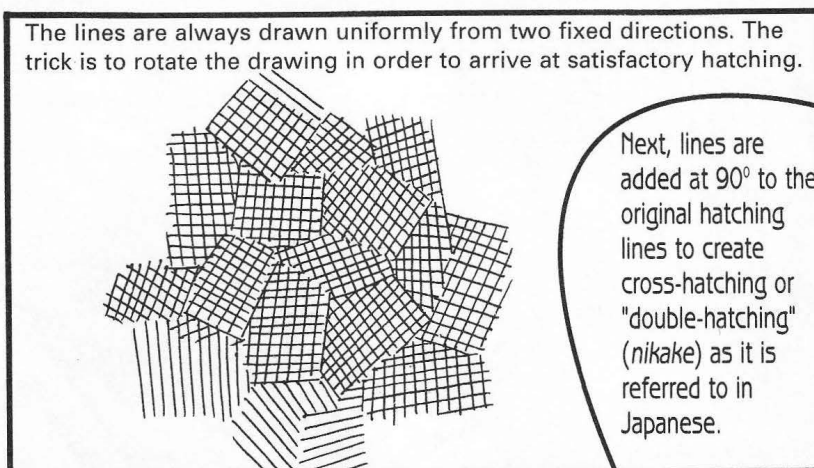
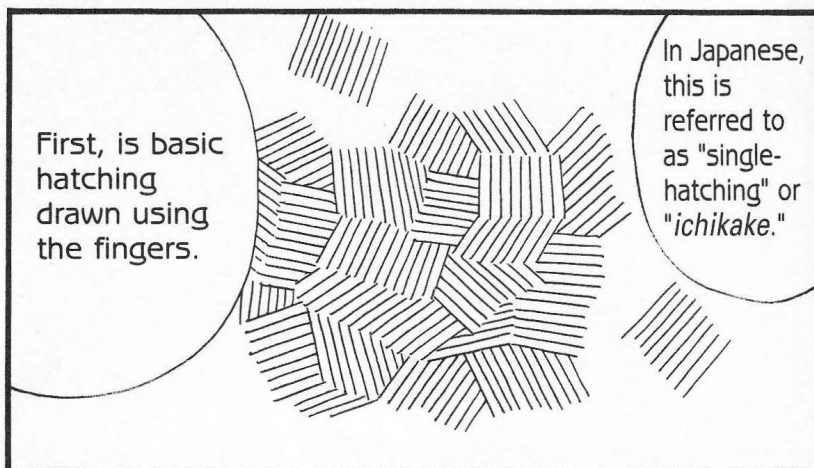
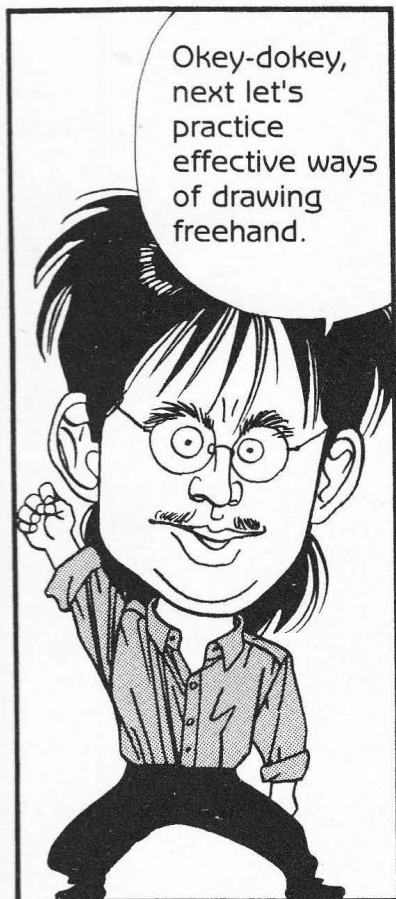
The shoulder!

The shoulder is extremely important.

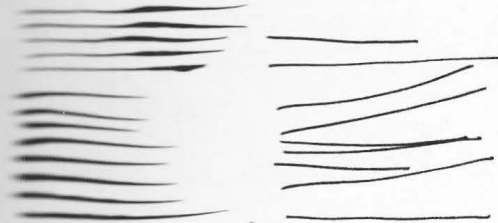
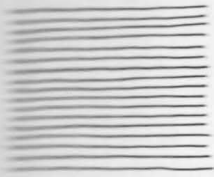








The key when adding hatching or cross-hatching is to maintain consistency in the distance between the hatching strokes and in their thickness.

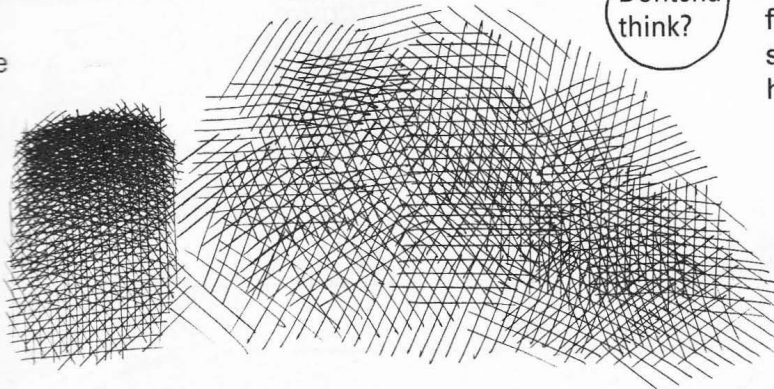


Strokes like these are sloppy and unacceptable.



Try using hatching in scenes like this.

Drawing from the elbow instead of from the fingers produces hatching of a different flavor.

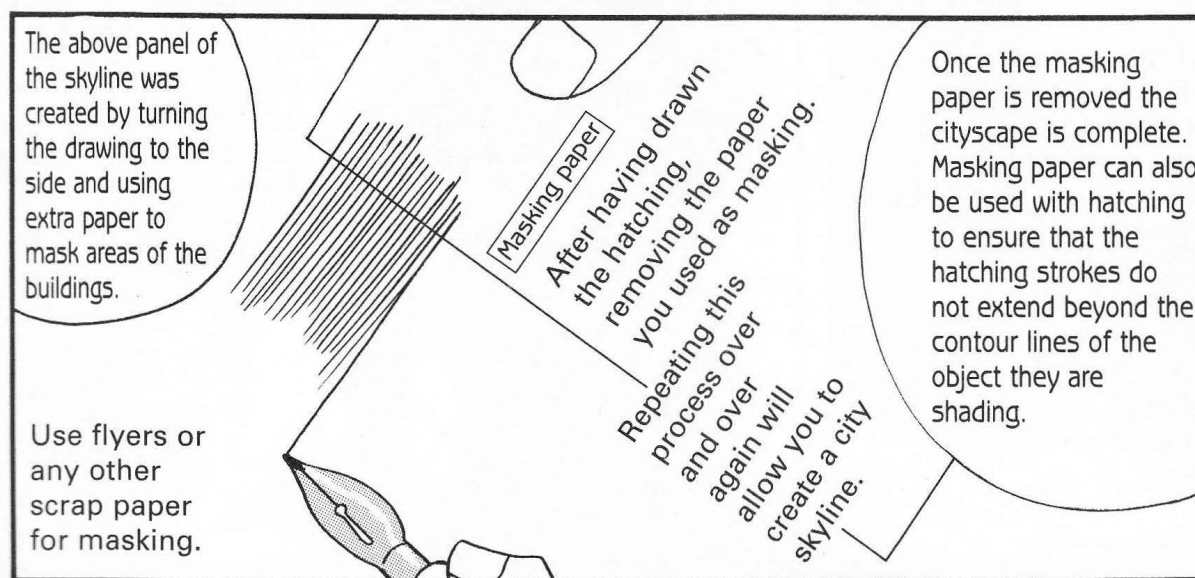
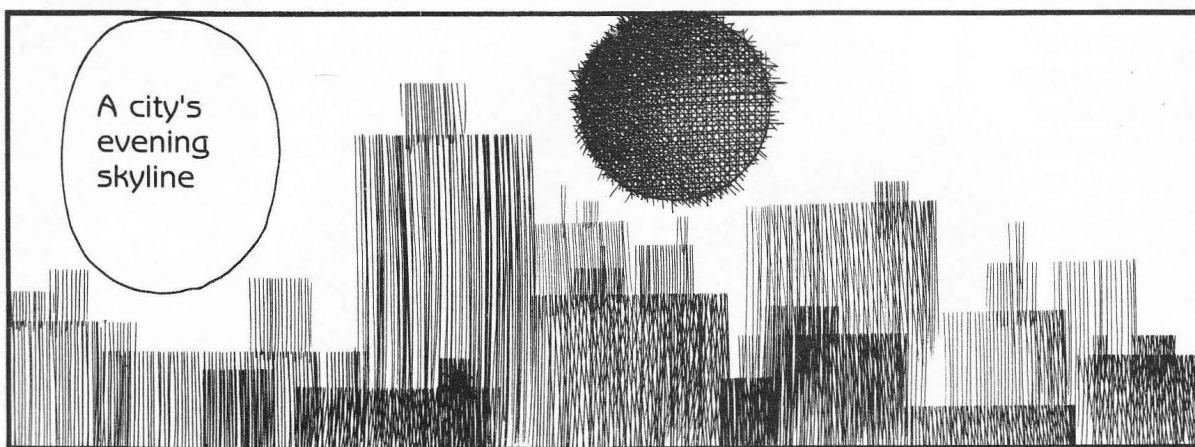


Dontcha think?

In this case, the fingers, wrist, and shoulders are all held in place.

As I mentioned earlier, being able to draw from the elbow is extremely important, so make sure you master the technique. Strokes drawn from the elbow have endless possibilities of use.





**Q** I heard that recently the trend in manga is toward thin lines and realism. Is that true? 🐱





Shadows  
across a  
face



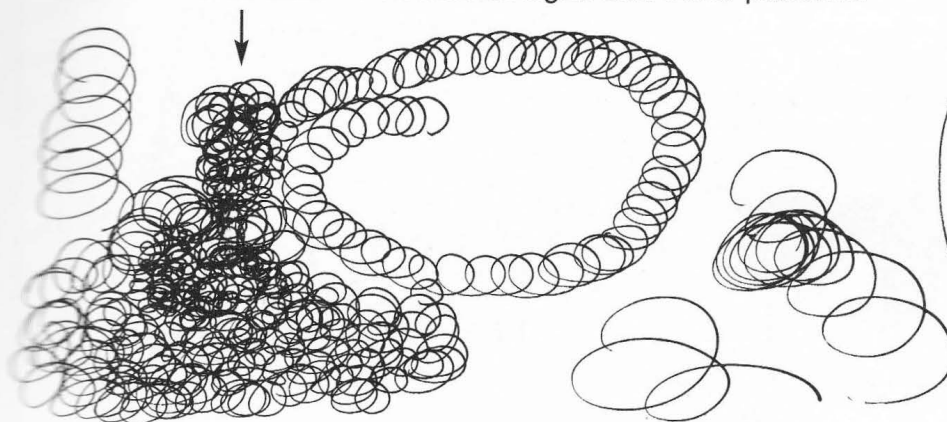
Ack!

**See?**


Hatching can be used for just about anything.

Hatching is so critical that basically a beginner artist unable to use hatching just can't draw *manga*.

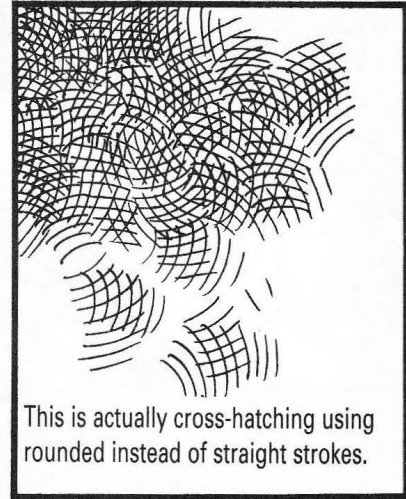
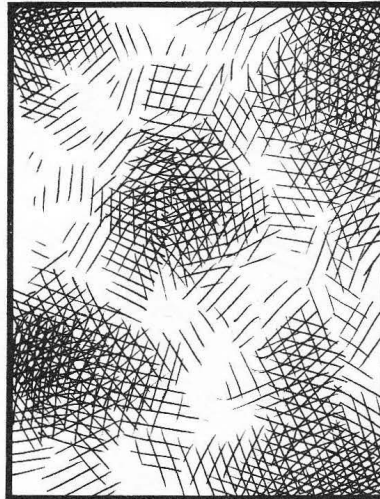
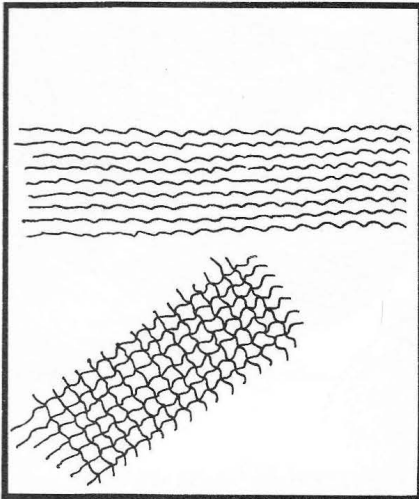
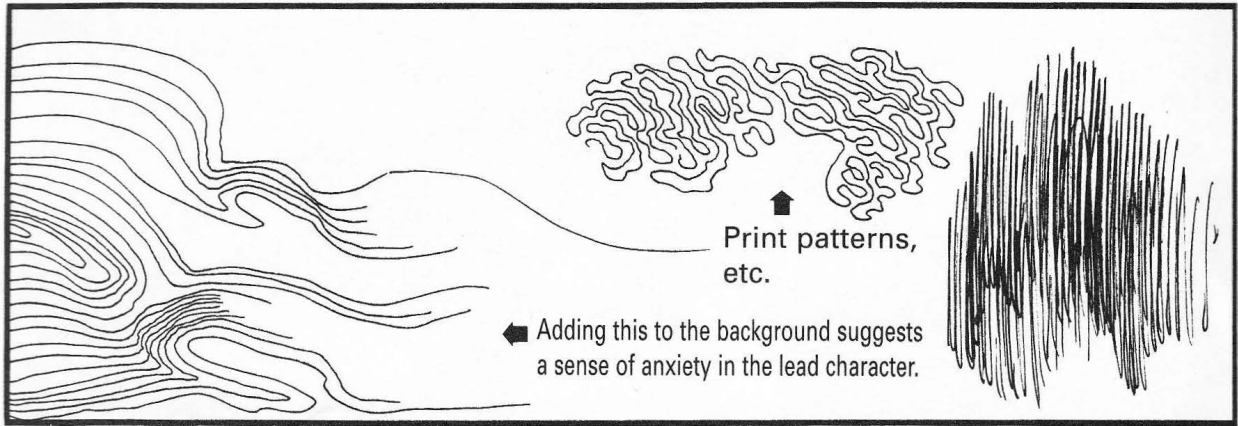
This stroke can be used as necktie designs and other patterns.



Next, let's go  
over a few  
strokes that can  
be used to  
create simple  
patterns.

 Do not lock yourself into that mindset. The world of *manga* would be boring if everyone drew in the same style. You should draw in whatever way you like best.

When a rough, grainy look is desired, use a sort of scribble shading. This is effective for giving the lower part of walls a sense of being inhabited.



This is actually cross-hatching using rounded instead of straight strokes.

Today, all of these patterns can be purchased in screen tone format. However, practicing them will help you get used to handling a pen. Plus, using screen tone for absolutely every detail down to hatching could cause your artwork to lose its sense of an individual style, so make an effort to draw as much as you can on your own.

What's the deal?! How come he's the only character looking good in this panel?

Grrr...

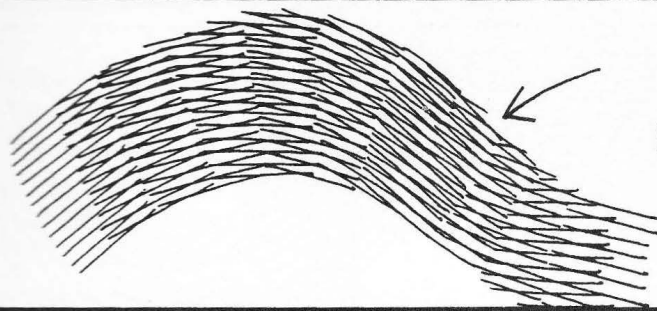
Our next topic will be a little on the difficult side: "nawa-ami" or "cord hatching."



**Q** Is *nawa-ami* mostly for the background?

Also, what sort of mood or psychological state does it suggest? }

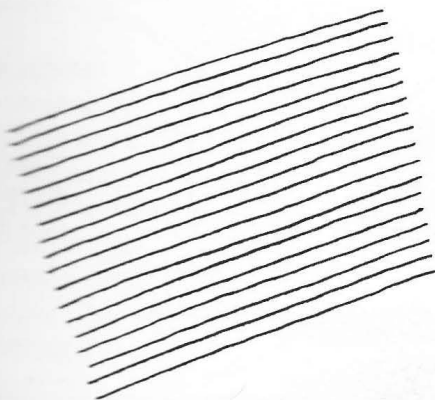
Once you give it a try, you'll find it's easier than you thought.



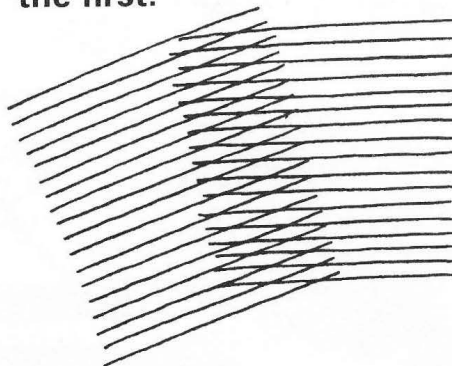
**これだ!**

This!

**1** Create a rectangular block using oblique lines.



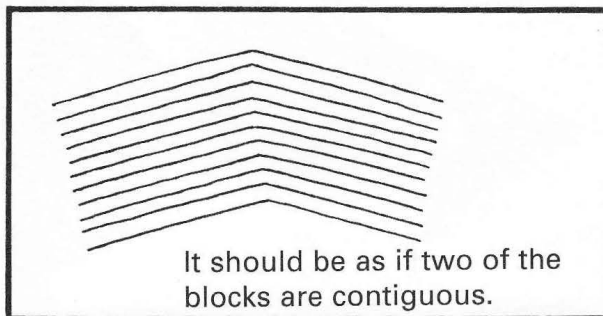
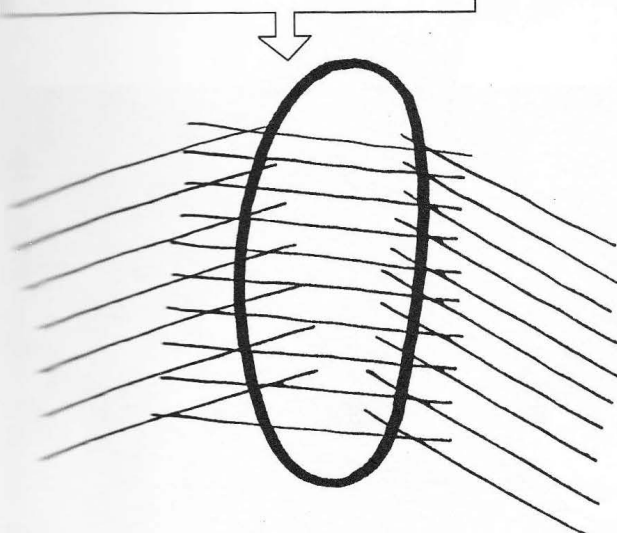
**2** A similar block is then drawn at a different angle slightly overlapping the first.



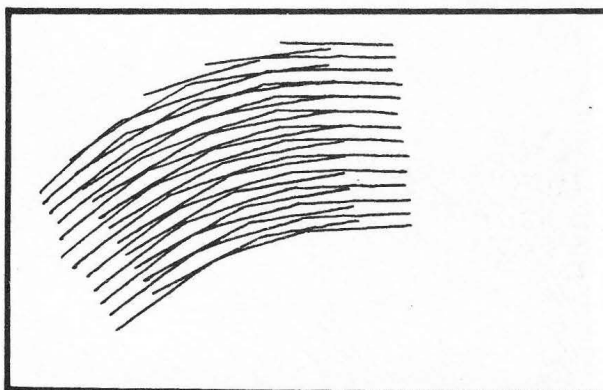
The key here is that the lines should be spaced equidistantly and have the same thickness.

**3** This process is repeated.

The key is here, at the juncture of these blocks. This juncture should not be open.



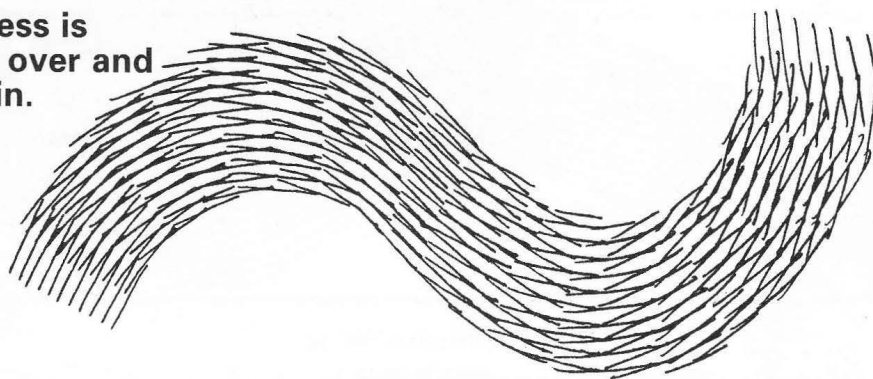
It should be as if two of the blocks are contiguous.



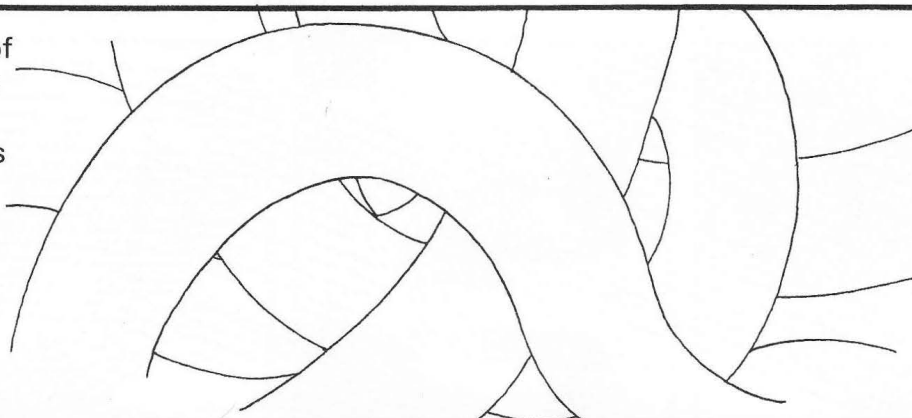
**4** This is perfectly suitable for buildings' shadows as well. When it is used as a backdrop for a character, it tends to suggest unease. It can also be used as shading for a character.



4 The process is repeated over and over again.

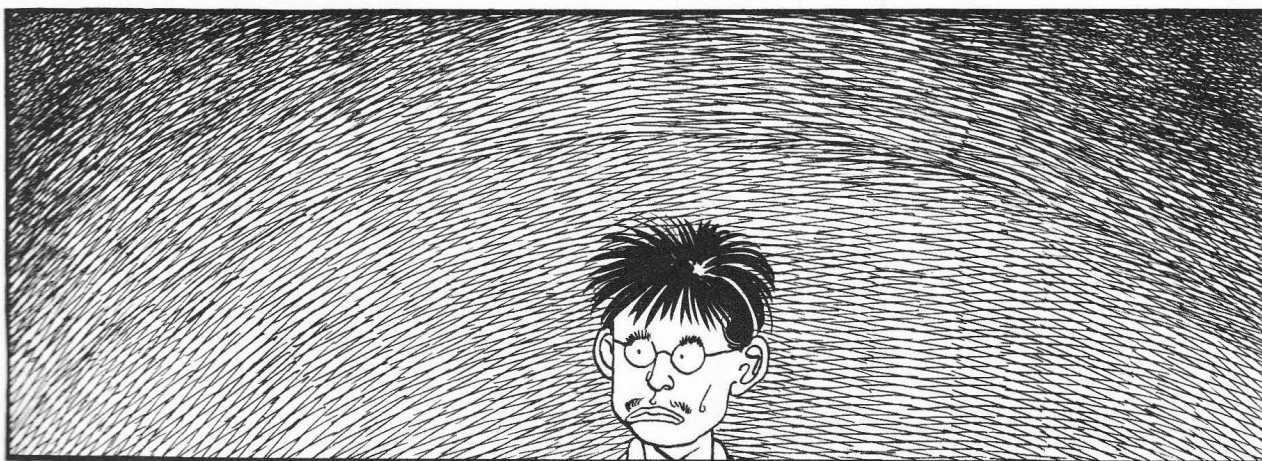
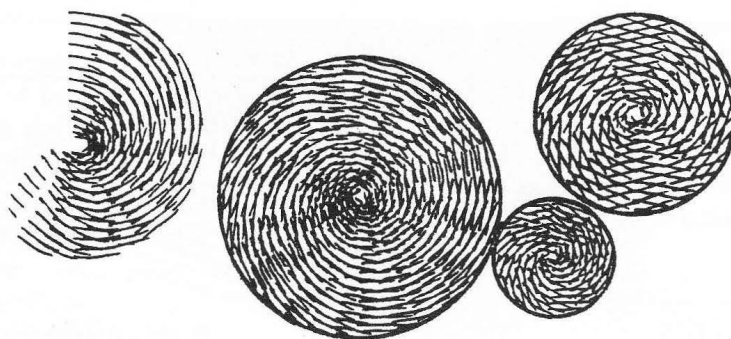


One way of ensuring a satisfying outcome is first to roughly sketch the cord(s) in pencil.



The sketch may look something like this.

Other *nawa-ami* patterns.



**Q** What is the difference between the types of lines and strokes used for *shonen manga* (manga read by boys), *shoujo manga* (manga read by girls), and *seinen manga* (manga read by guys in their teens and twenties). 📖

Hence

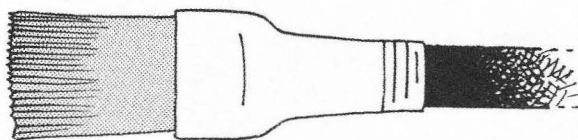
You could trim lined screen tone into rectangles and match them up to create *nawa-ami*.



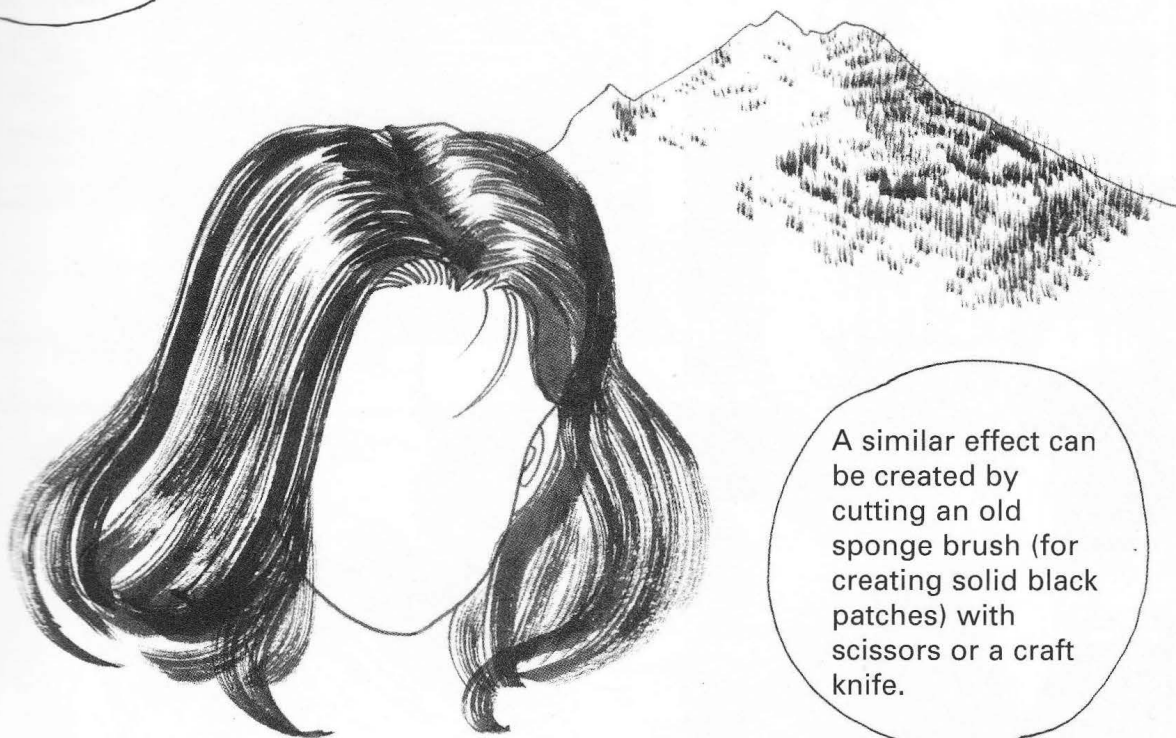
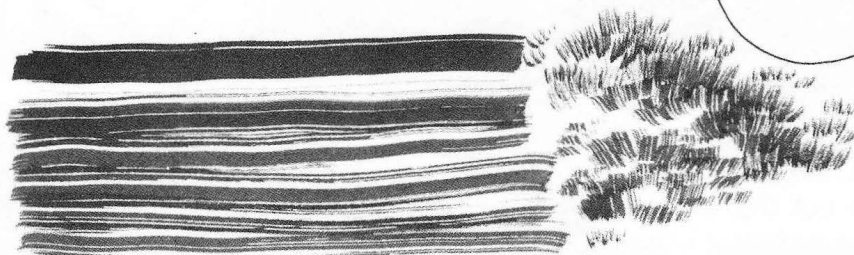
However, this method takes time, and it often comes out muddled. So, I recommend practicing until you become competent at the technique.

These strokes were created by lightly dipping a flat brush into India ink and then softly sweeping the brush across the paper. This is something a beginner can become proficient at rather quickly, so practice!

Flat brush

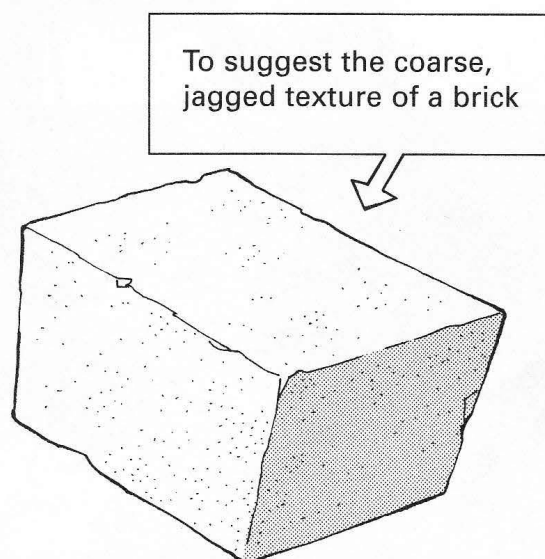
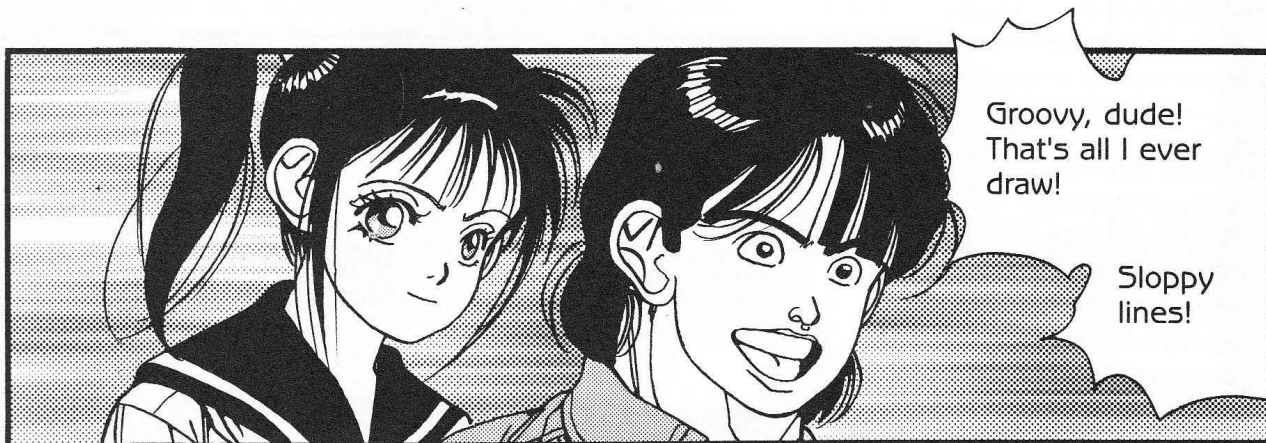
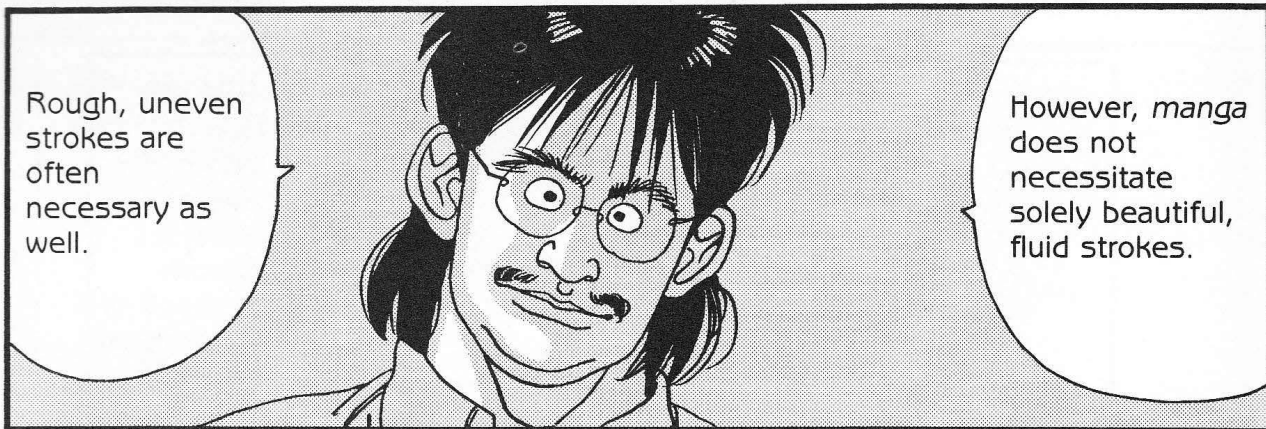


Bonus Tip!



A similar effect can be created by cutting an old sponge brush (for creating solid black patches) with scissors or a craft knife.

**A** I don't really think there is a difference in the types of lines and strokes used; although, there are differences between the drawing styles for the three. Still, I can't say definitively what style is appropriate for which genre. If I were forced to make a distinction, I guess I would have to say the three project a different mood. Does that help out or make things even more confusing? Sorry.





This line can be created rather easily by modulating the pressure you apply to the pen.

Rough strokes are effective when rendering the walls of an old, rundown building.

However, just because you are adept at drawing this sort of stroke does not mean you should overuse it. Overusing this type of stroke could backfire on you.

Take care not to overuse it.

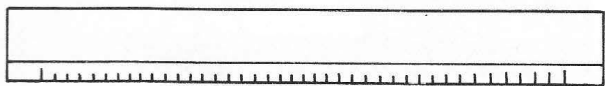
Roger!

All right, team. Next comes drawing with a straightedge. Are all systems go?

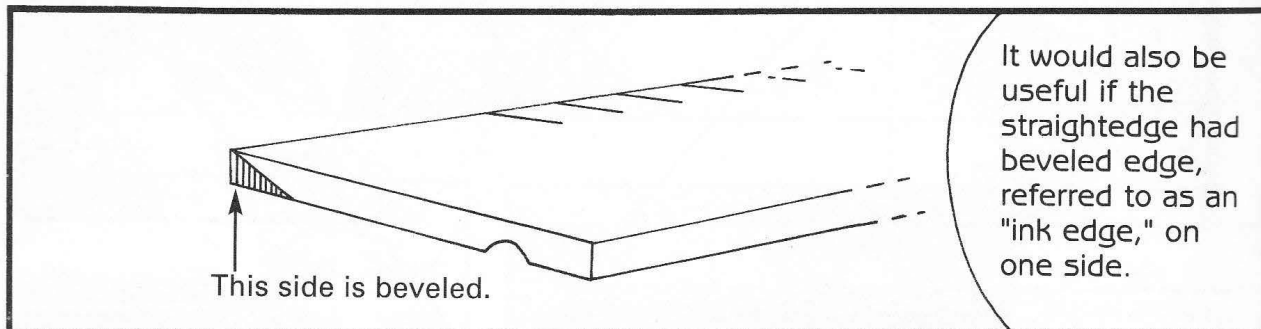
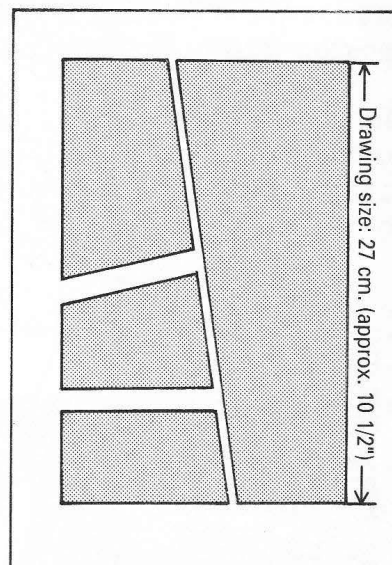
Yo!

Yes!

Straightedges can be of any length, but one that is too long will be unable to draw a panel frame line. A straightedge around 30 cm (approx. 12") should be reasonably useful.

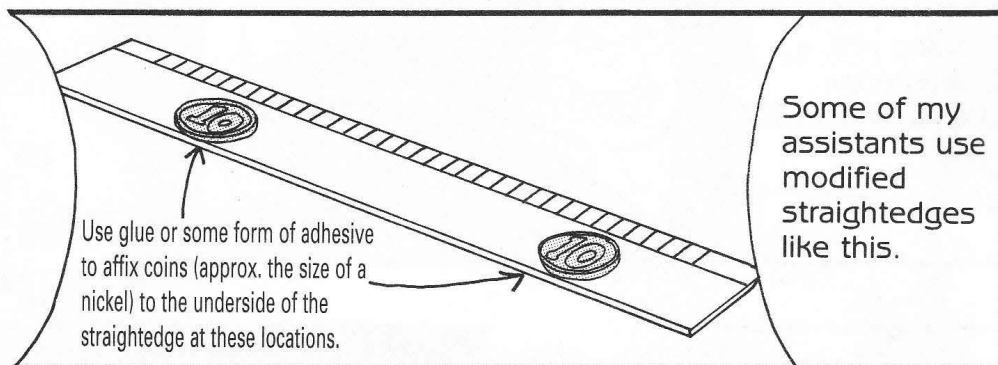


A 30 cm (approx. 12") straightedge

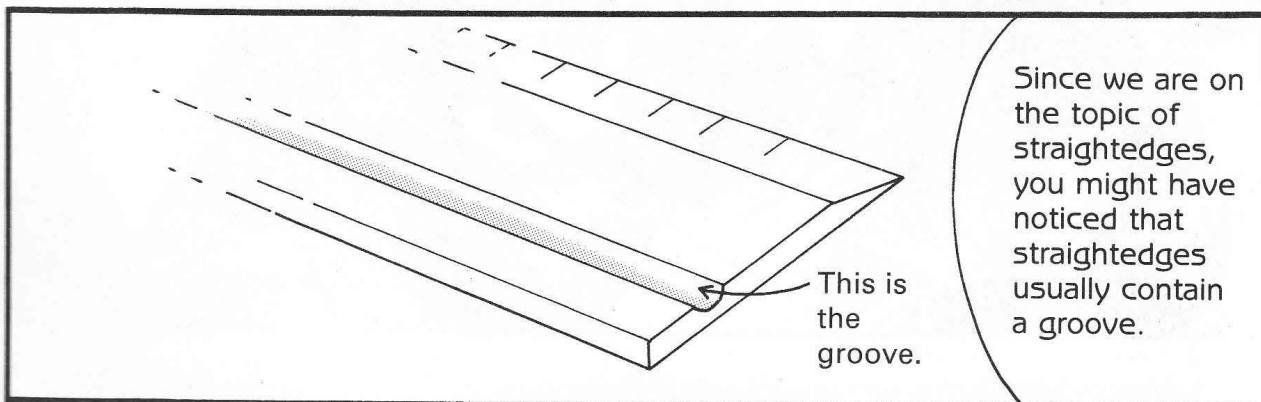


It would also be useful if the straightedge had beveled edge, referred to as an "ink edge," on one side.

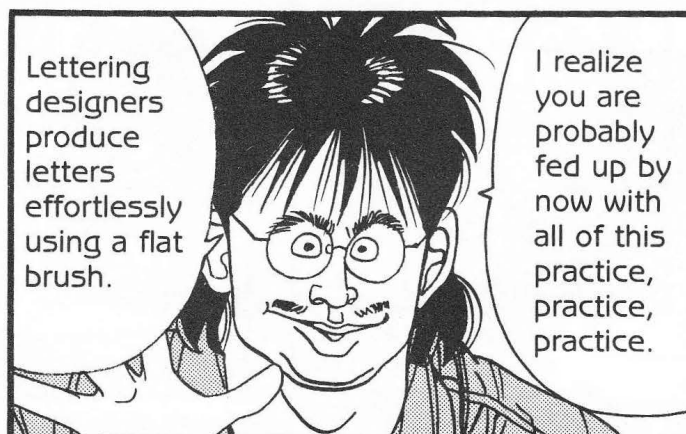
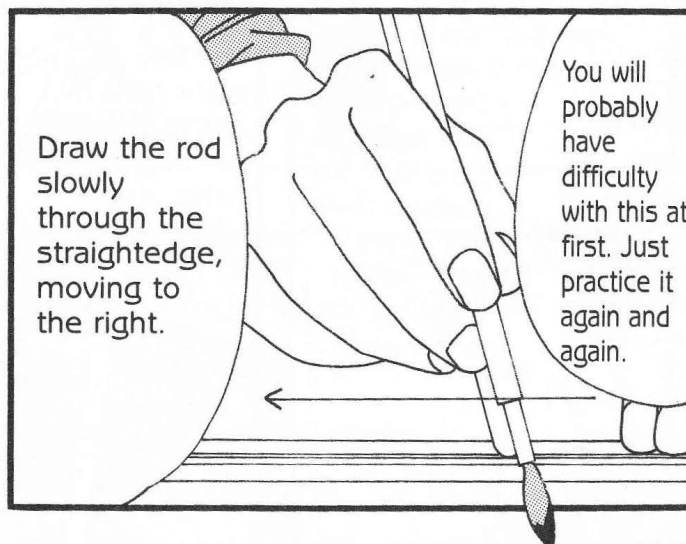
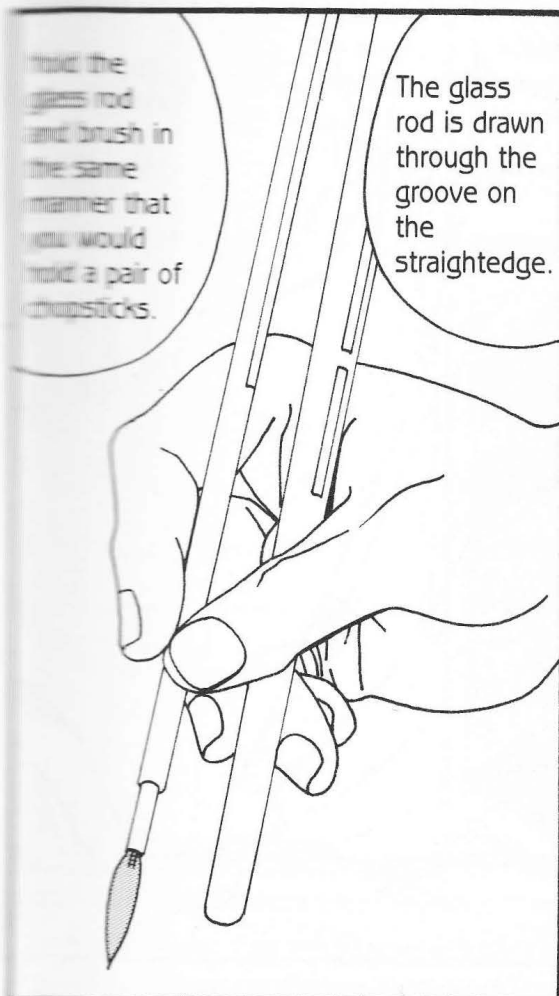
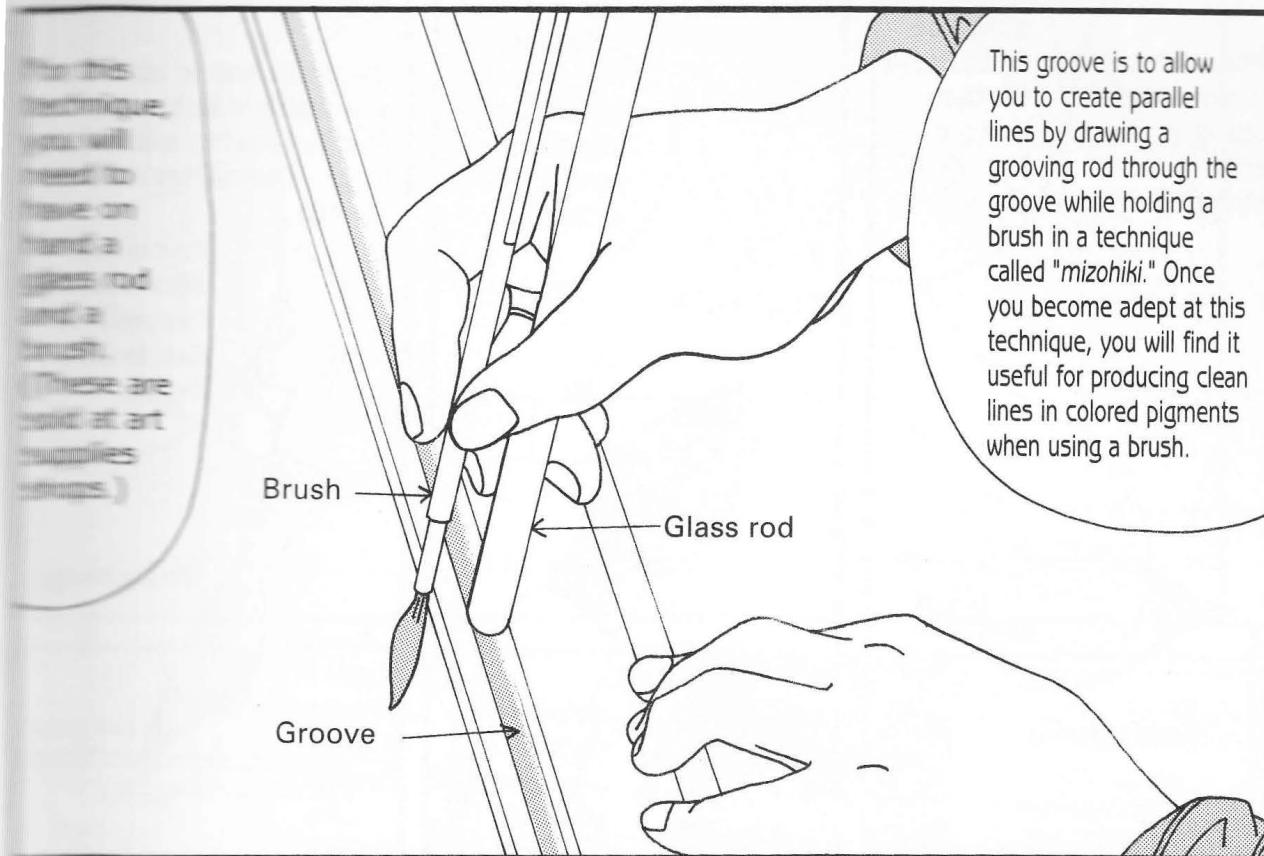
Raising the straightedge in this manner is handy, because it will prevent the line from touching it, allowing you to continue working even while the lines are still wet.



Some of my assistants use modified straightedges like this.



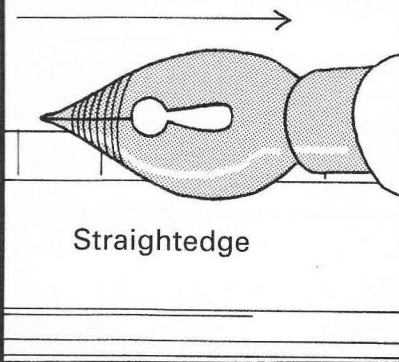
Since we are on the topic of straightedges, you might have noticed that straightedges usually contain a groove.





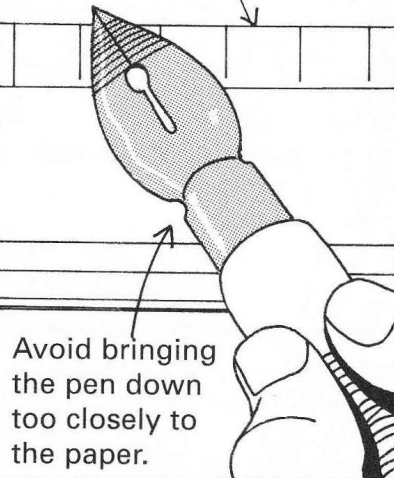
Now, let's draw a line using a pen and straightedge.

The pen nib should be faced in the direction that the line will be drawn.



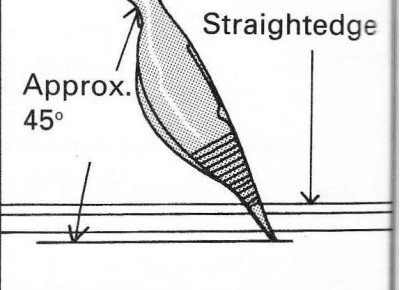
If the nib is positioned at a different angle, then it could snag on the straightedge, potentially resulting in a sloppy line.

Straightedge



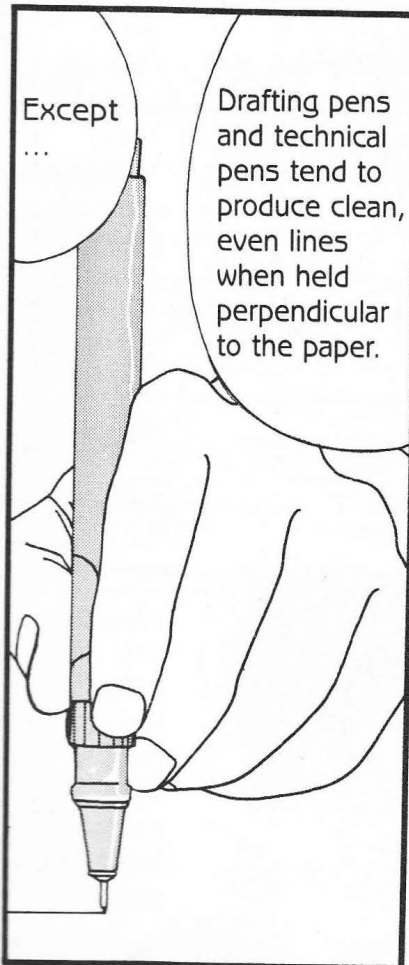
The pen can really be held at any angle relative to the line. However, in order to draw a thin, uniform line, the pen is normally held at about a 45° angle.

You may find it difficult to draw lines if the pen is held down too closely to the paper.



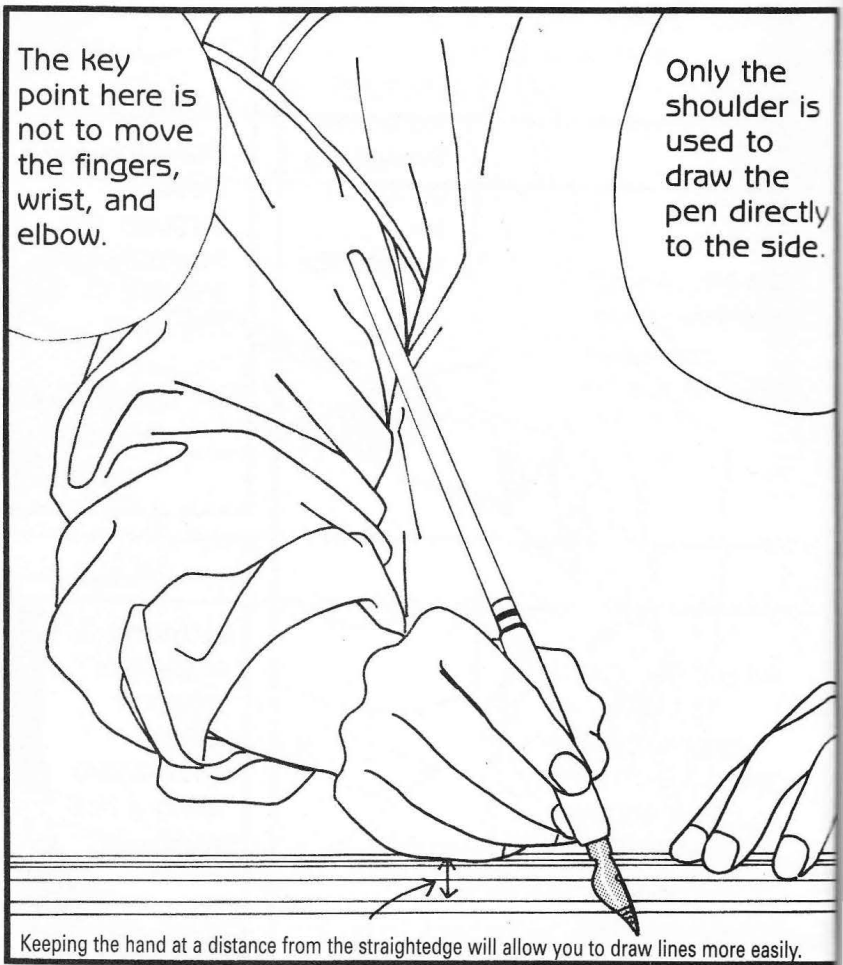
Except ...

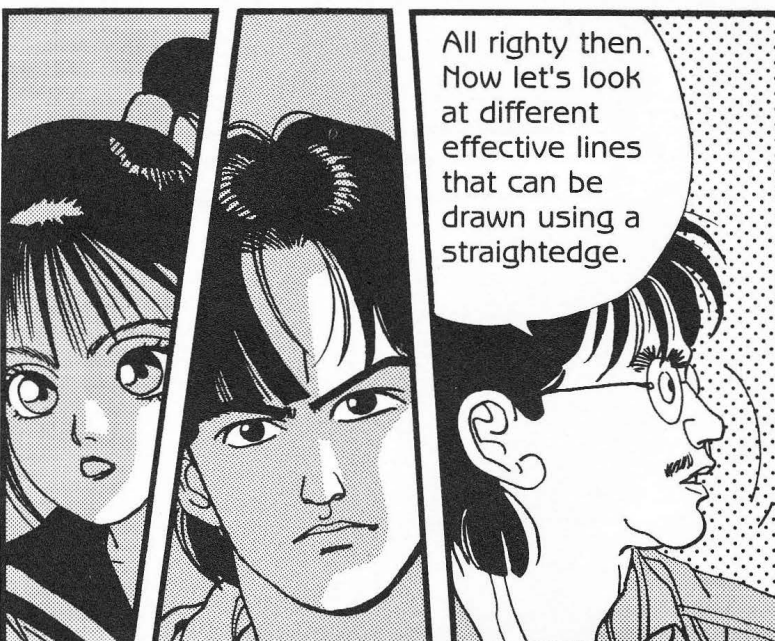
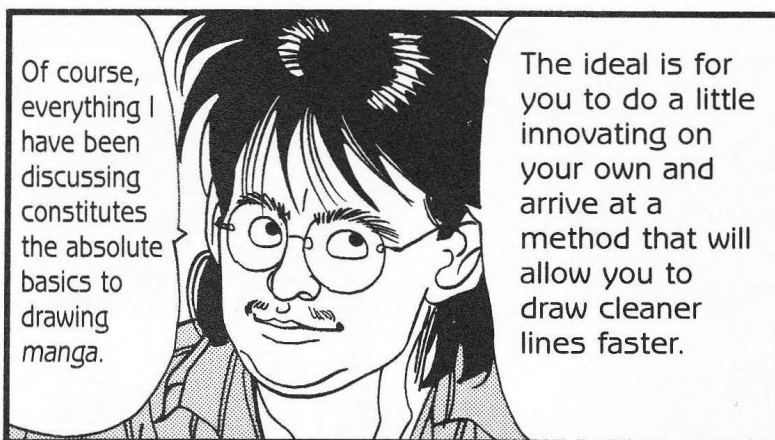
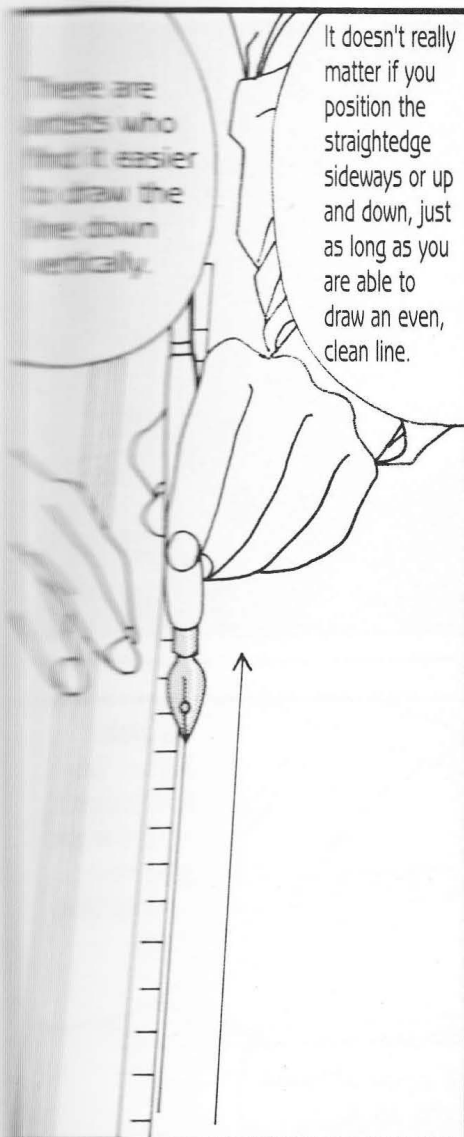
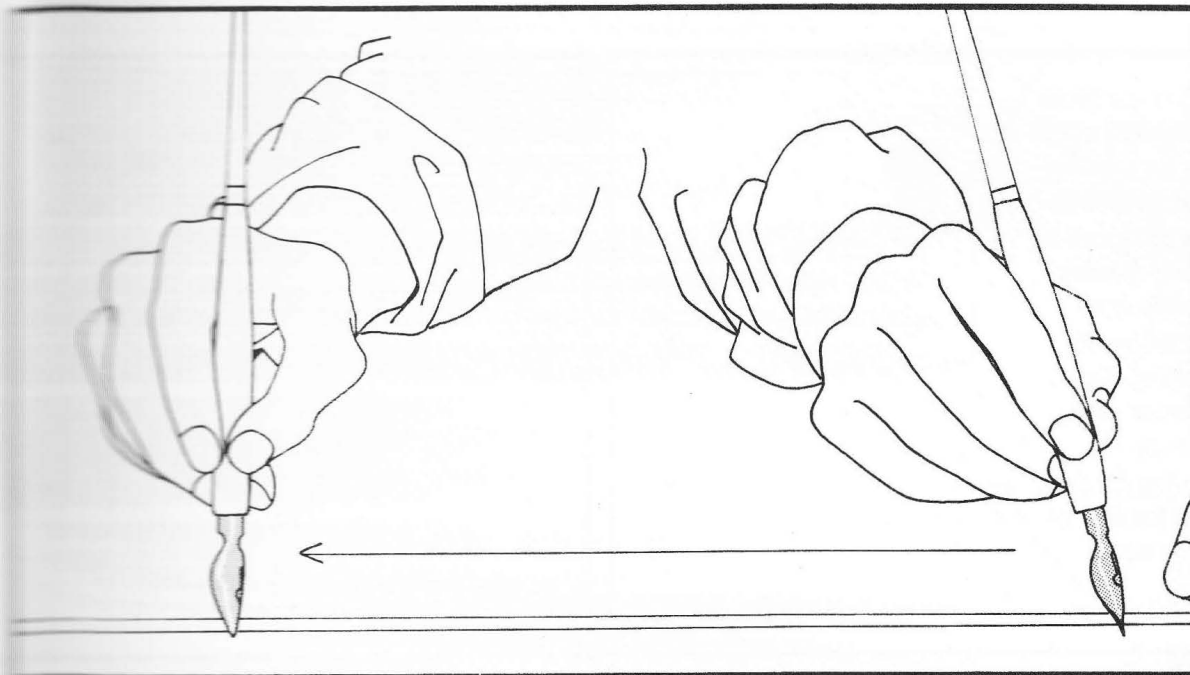
Drafting pens and technical pens tend to produce clean, even lines when held perpendicular to the paper.



The key point here is not to move the fingers, wrist, and elbow.

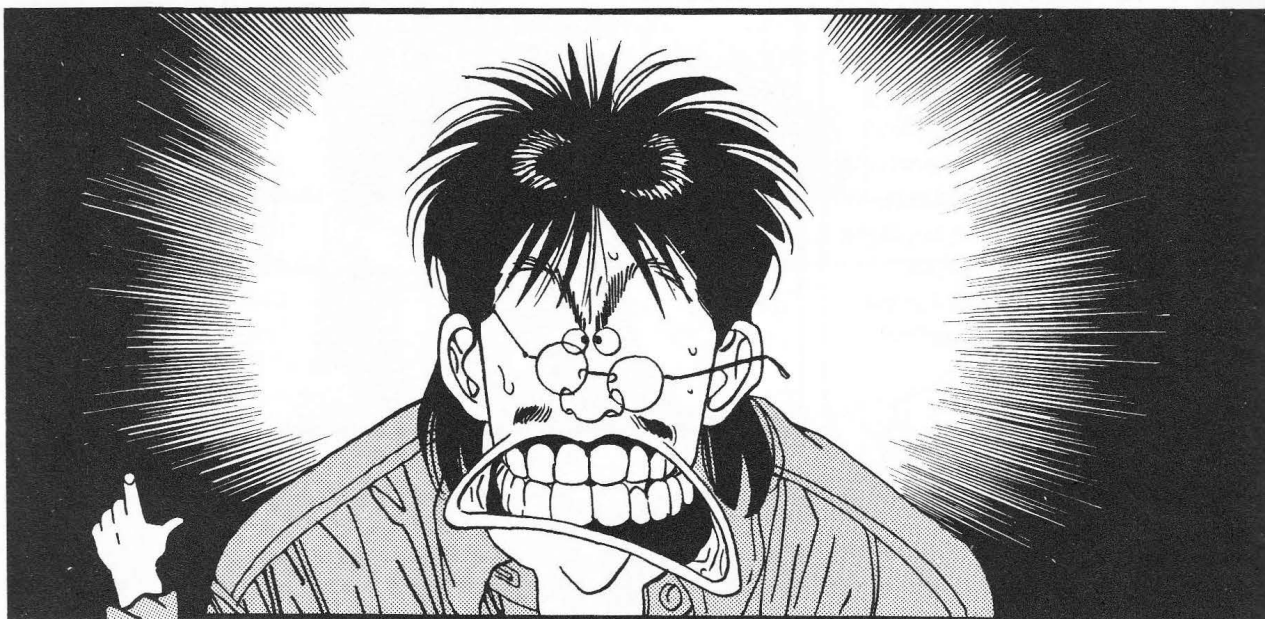
Only the shoulder is used to draw the pen directly to the side.





Copying is a great way to learn! The key is to produce as faithful of a copy as possible, from the thickness of the line to the way it is executed. Some artists feel that copying someone else's work will cause a beginning artist to lose his or her individuality (personal style), but if something as simple as copying for practice is enough to cause the beginner to lose his or her style, then maybe it's for the best. Even when you are copying someone else's work, your own personal style should still come through. It is next to impossible to come up with a perfectly faithful rendition.

This is the most commonly used line for creating "special effects." It is produced by slowly drawing the line from the left while applying strong pressure and then rapidly moving the pen until the line fades out.



This sort of line is used to create "special effects."

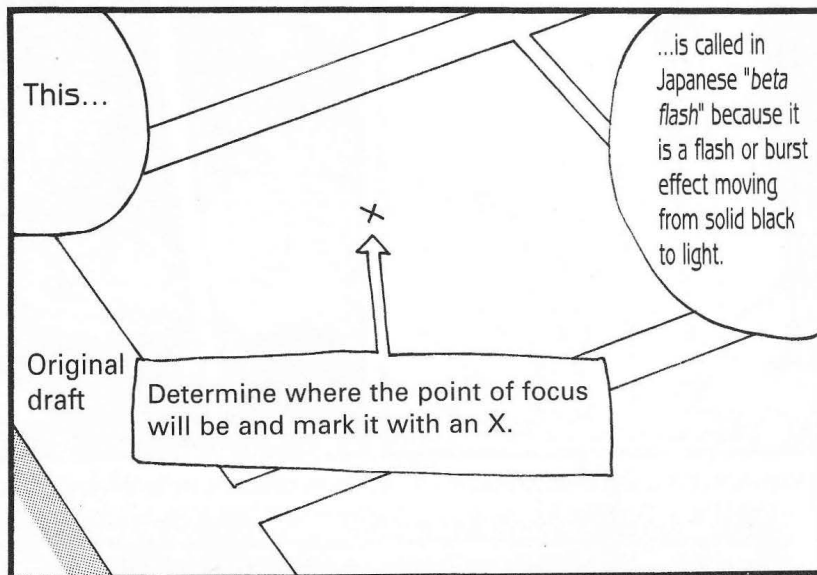


This...

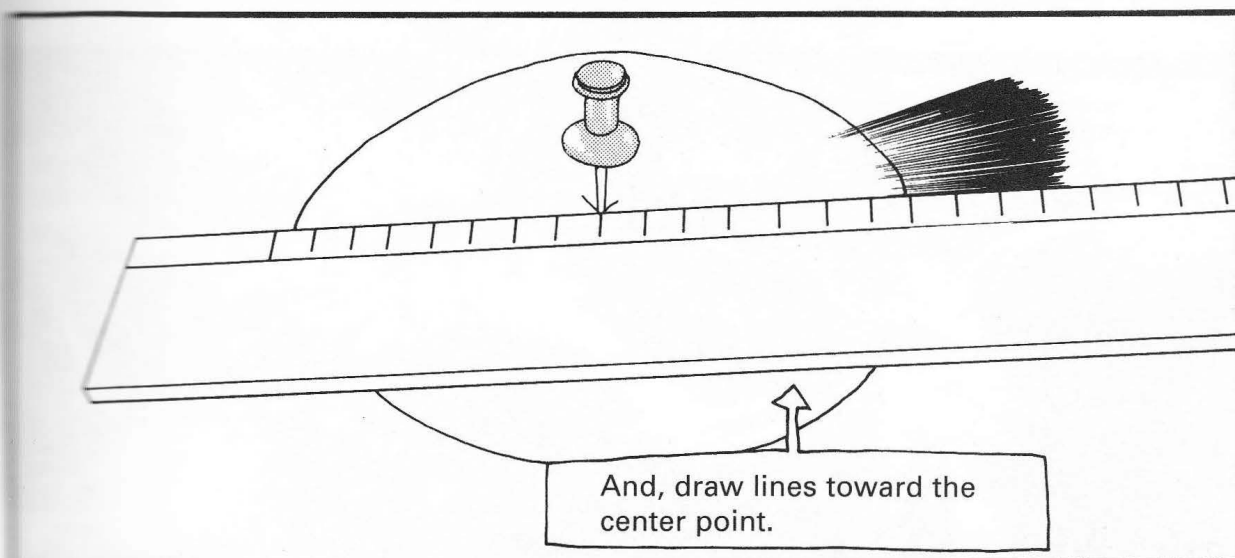
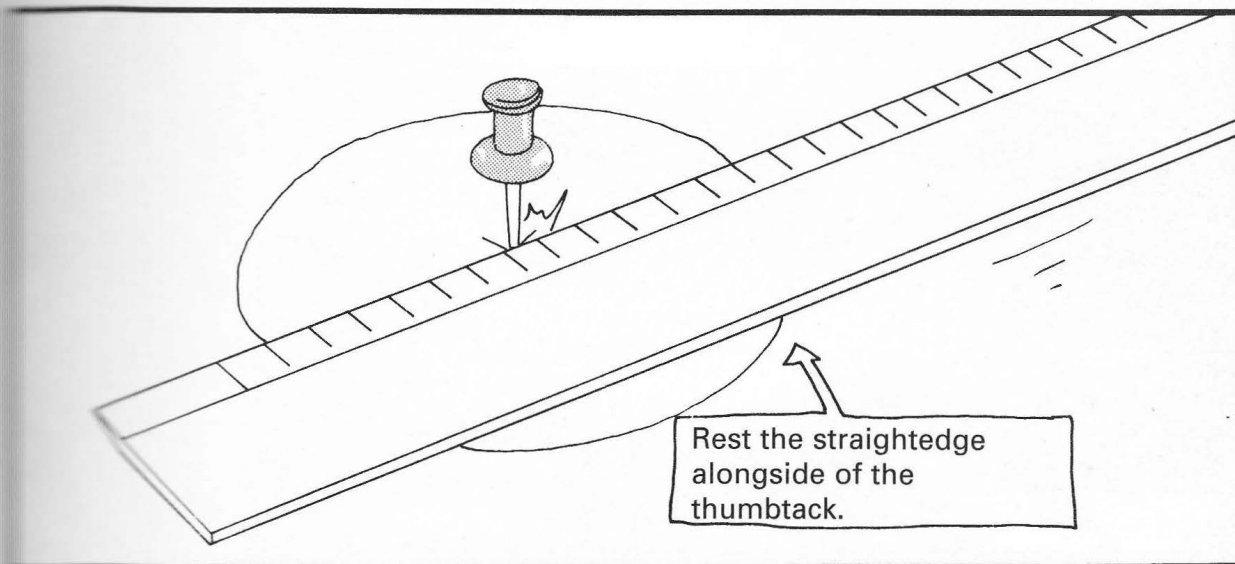
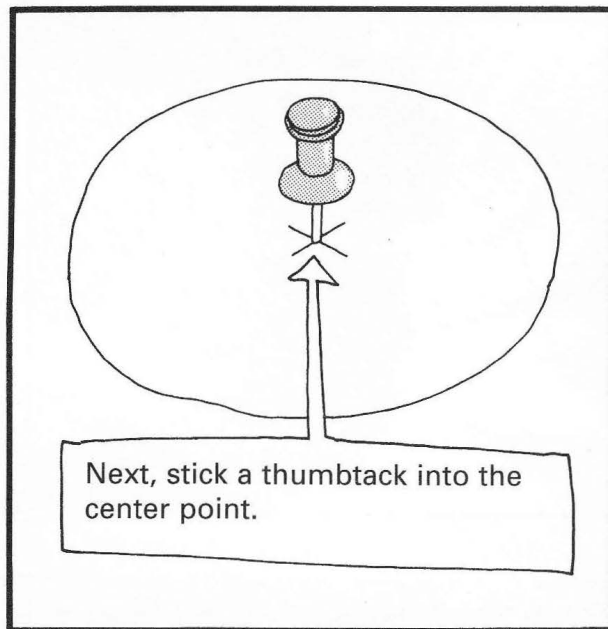
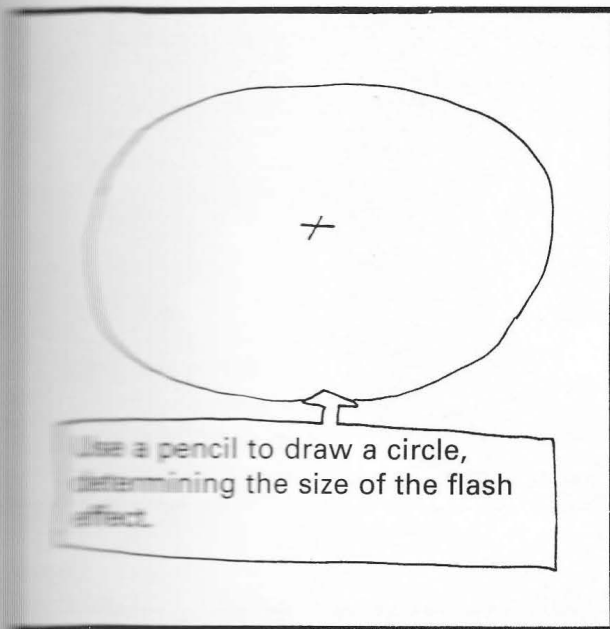
Original draft

Determine where the point of focus will be and mark it with an X.

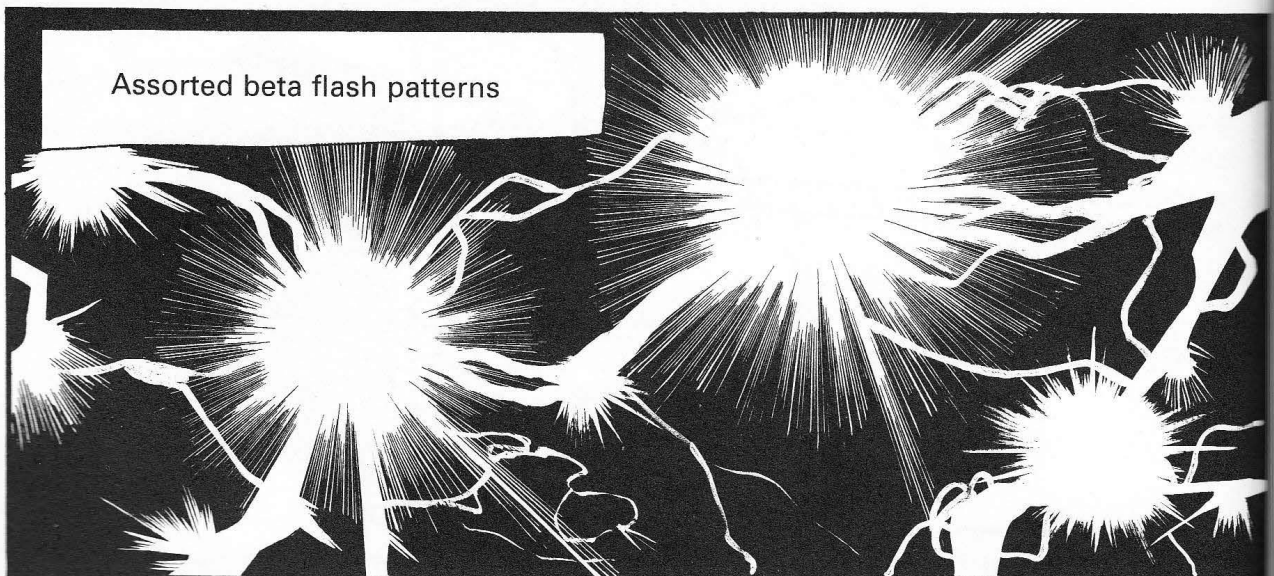
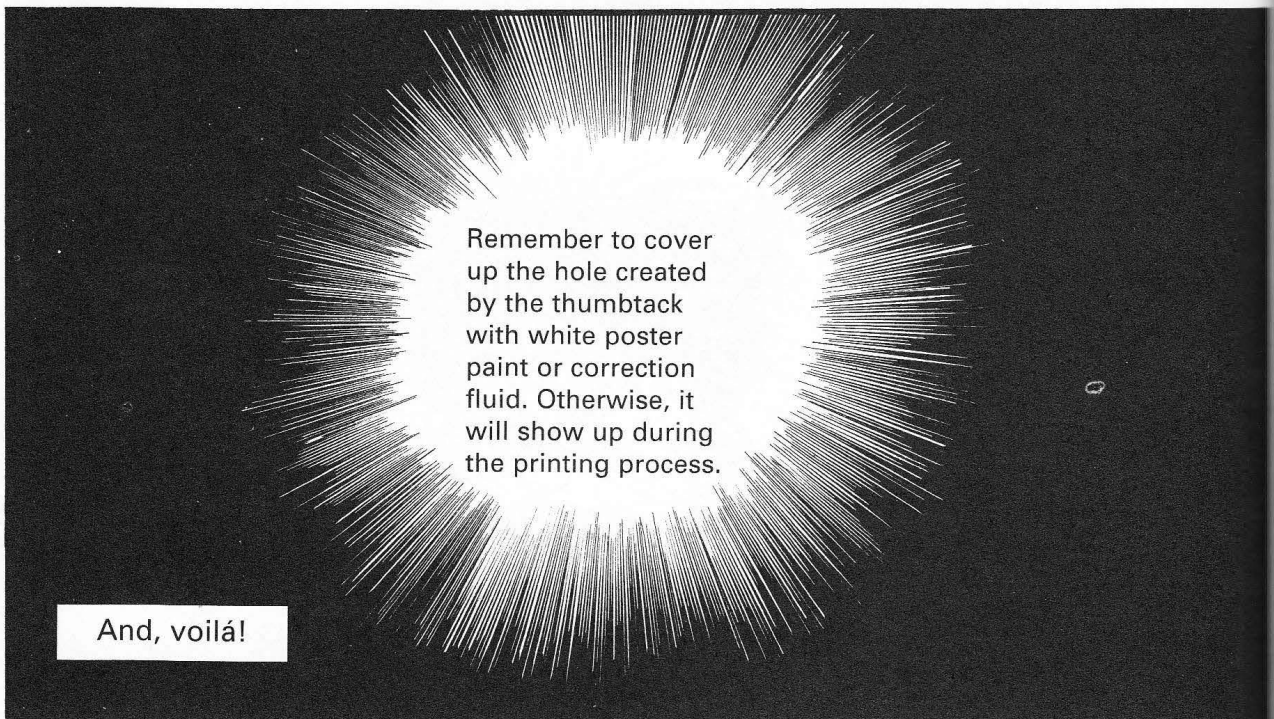
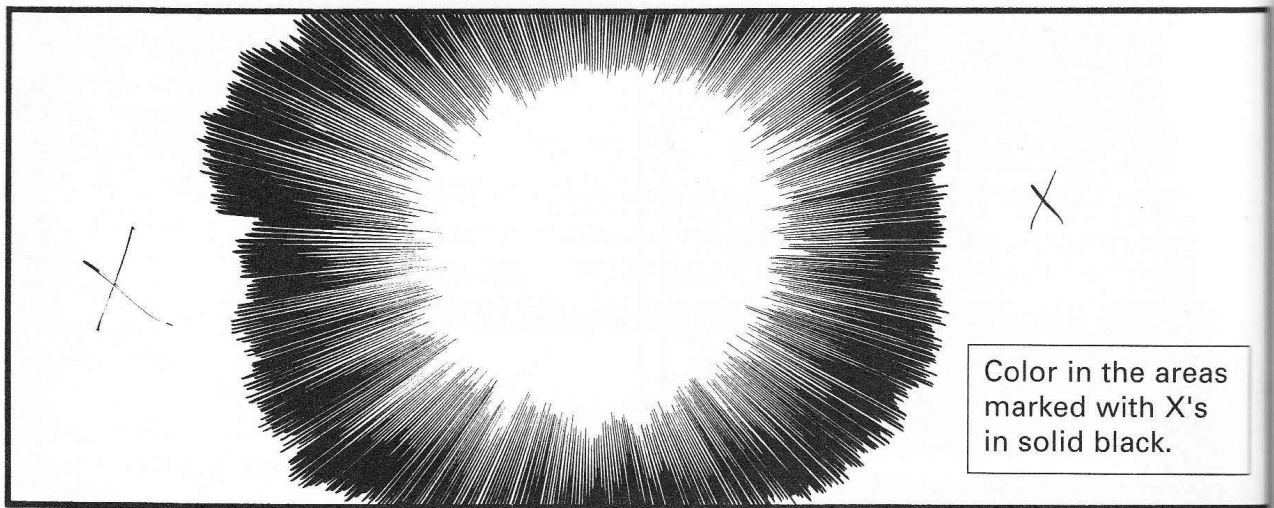
...is called in Japanese "beta flash" because it is a flash or burst effect moving from solid black to light.



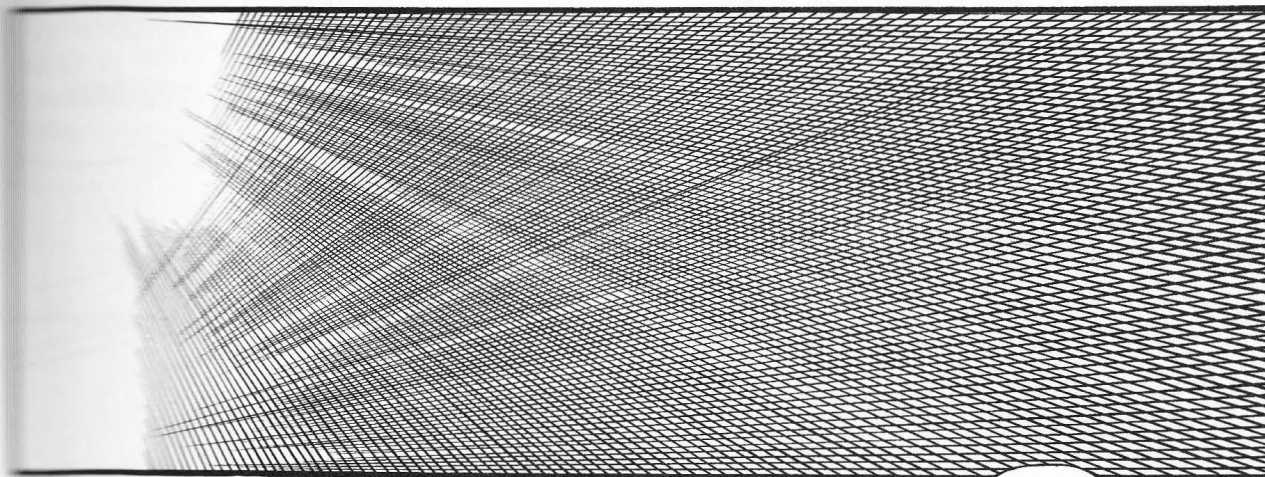
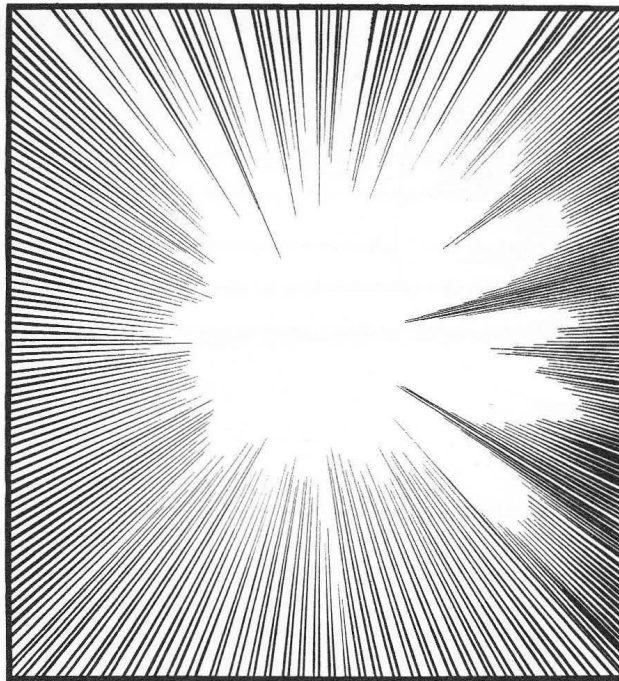
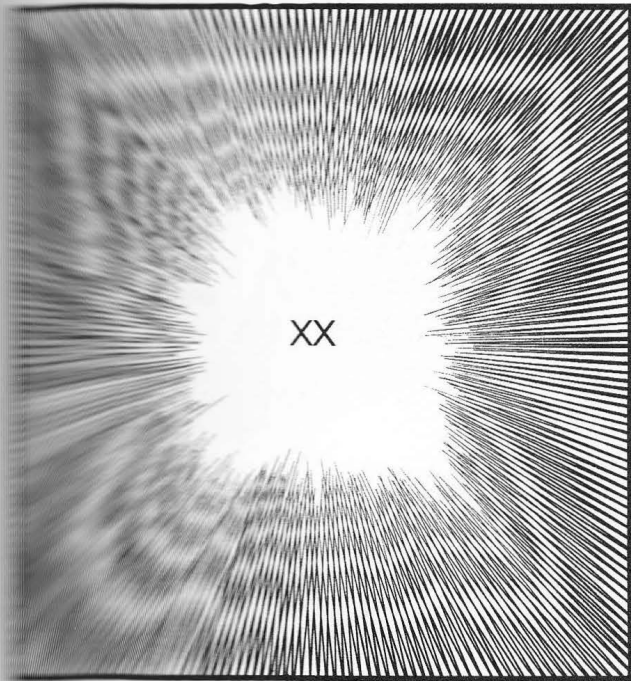




Placing the original draft directly on the desk will cause the thumbtack to make a whole in the desk. Instead, use a desk pad to protect the desk's top surface. This should also make it easier to draw lines as well.



Shifting the thumbtack a bit allows  
you to create various patterns.



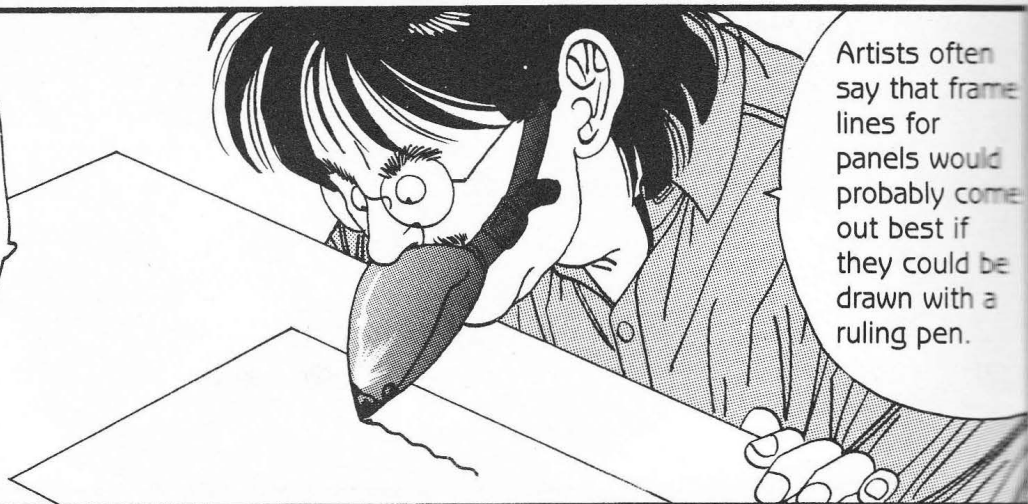
If you use your  
ingenuity, you  
should be able to  
come up with any  
number of  
interesting  
patterns, so give  
it a try.

If you come up  
with something  
really interesting,  
by all means, let  
me know.

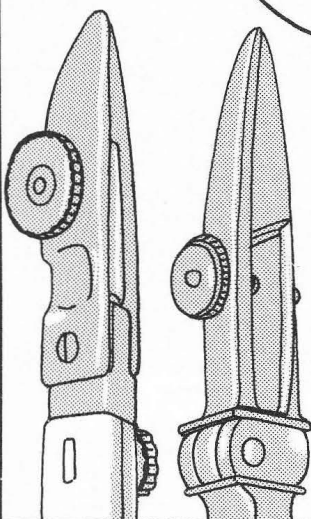


Since we are on the topic of lines, let's go over panel lines.

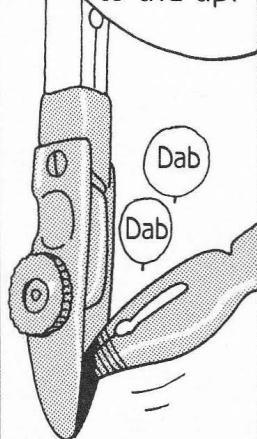
Artists often say that frame lines for panels would probably come out best if they could be drawn with a ruling pen.



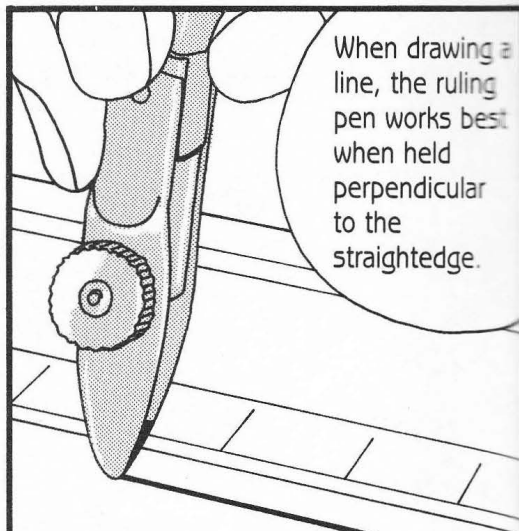
There are both German and British versions of the ruling pen.



The ink is not discharged directly from the pen. Rather, it is applied to the tip.



When drawing a line, the ruling pen works best when held perpendicular to the straightedge.



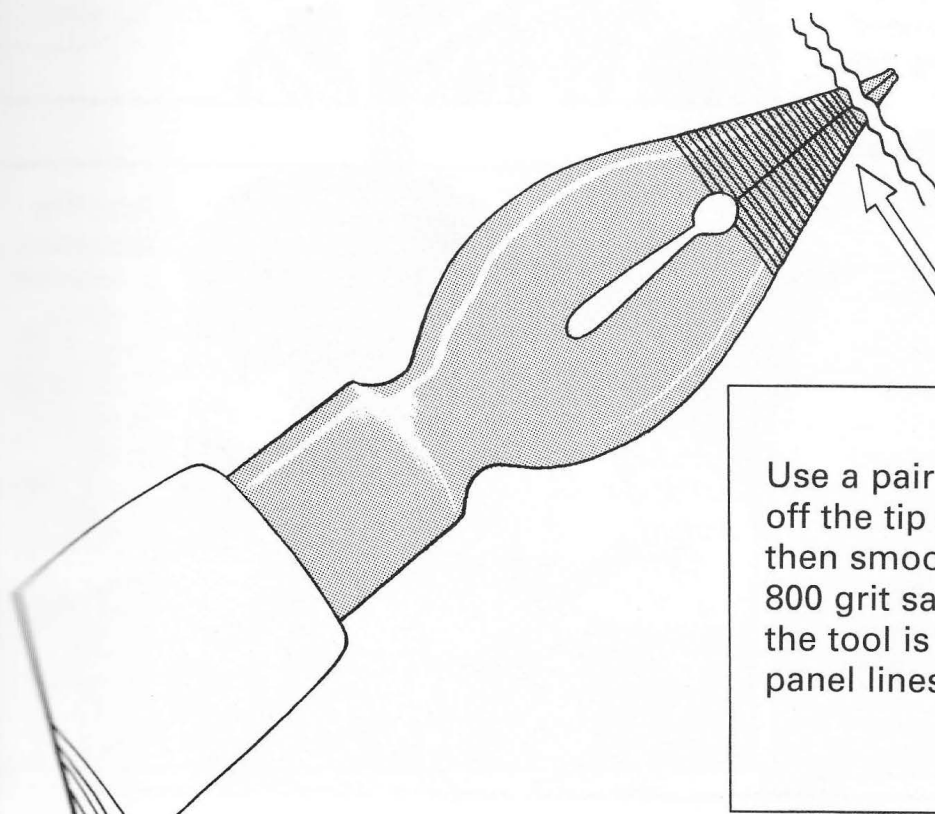
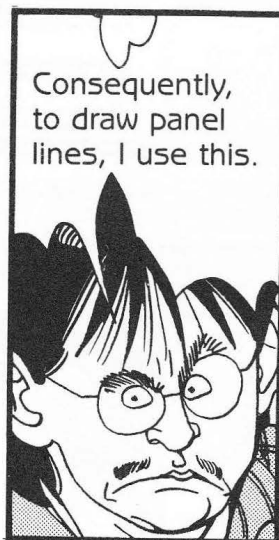
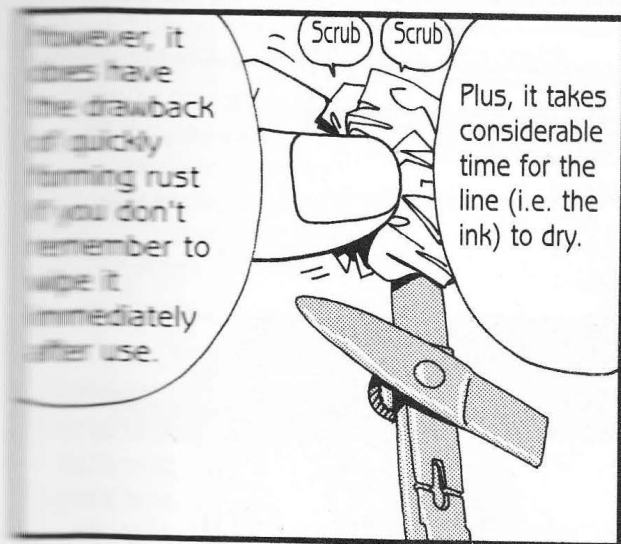
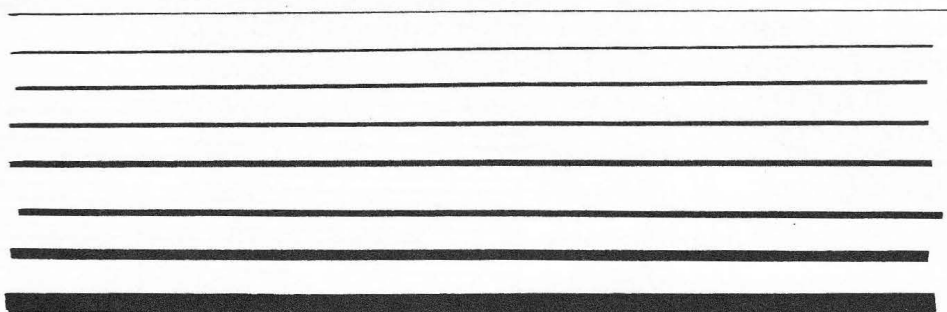
Straightedge

The line will lose its clarity if the ruling pen is held down too closely to the paper.

Good

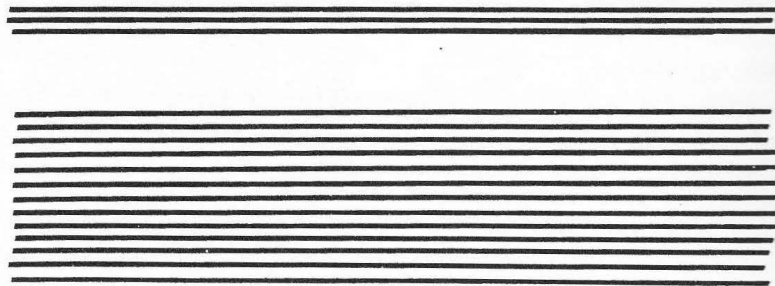
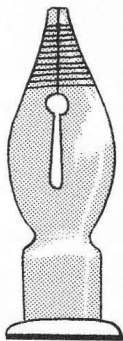


The ruling pen is an extremely handy tool in that it allows you to modify the thickness of the line as will or to maintain consistent thickness.

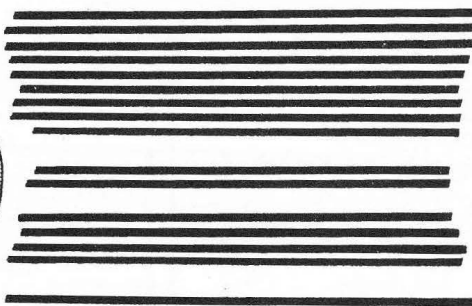
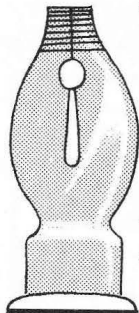


Use a pair of pliers to trim off the tip of the old nib and then smooth it down with 800 grit sandpaper. Then the tool is ready to draw panel lines.

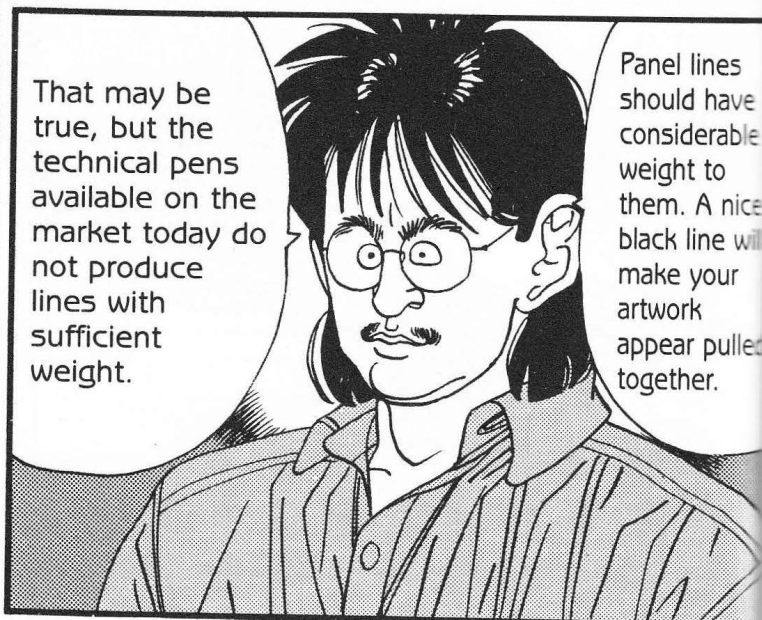
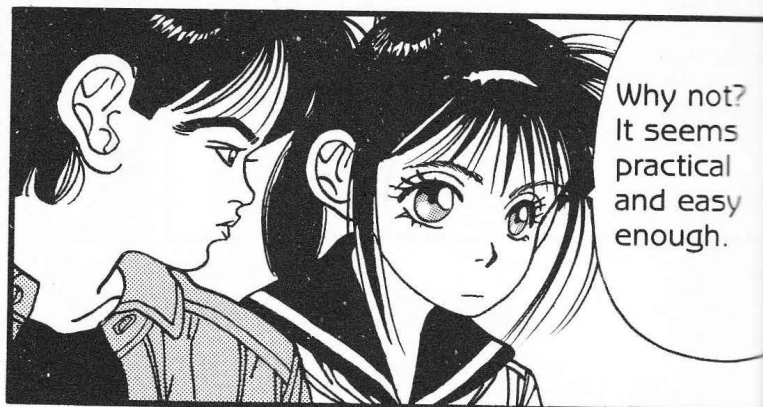
If you want to draw thin panel lines, then only cut off a small portion of the nib's tip.



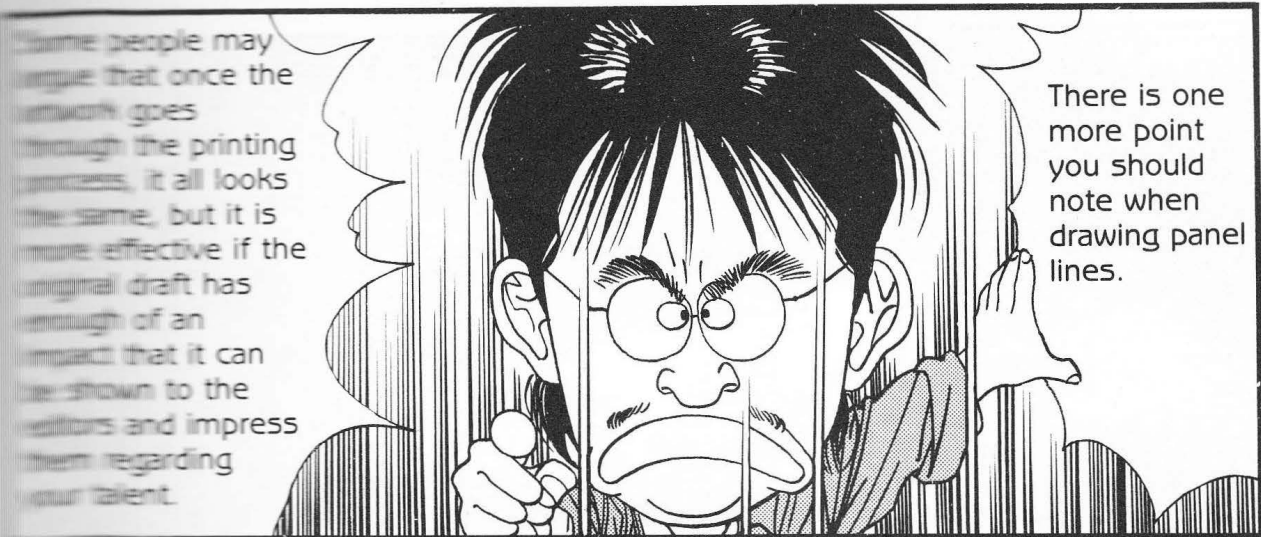
If you prefer thick panel lines, then cut off a bit more of the tip.



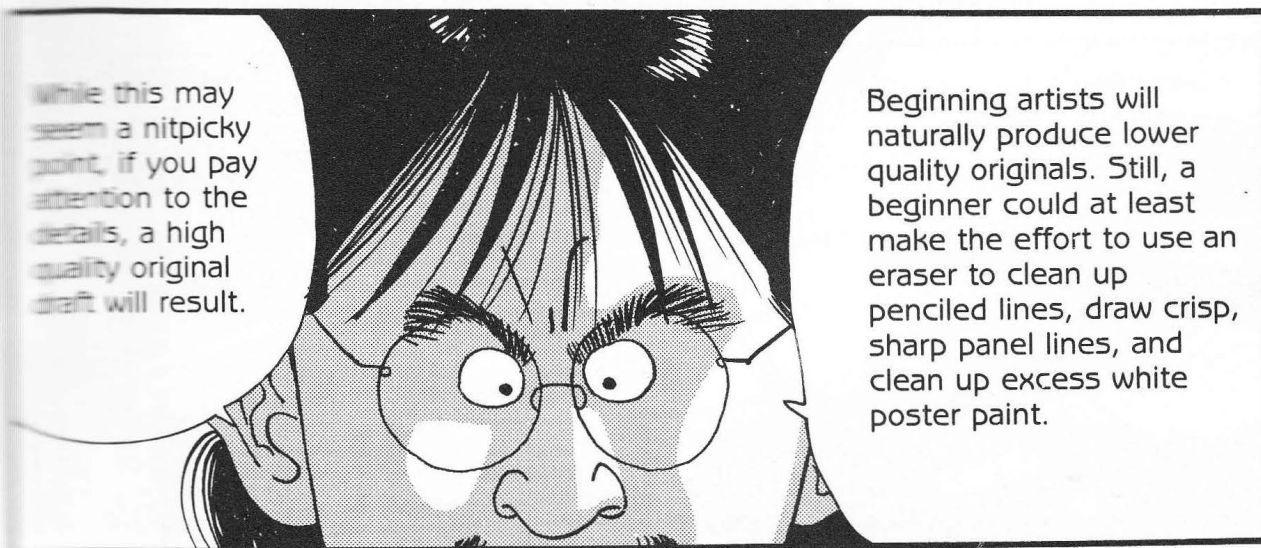
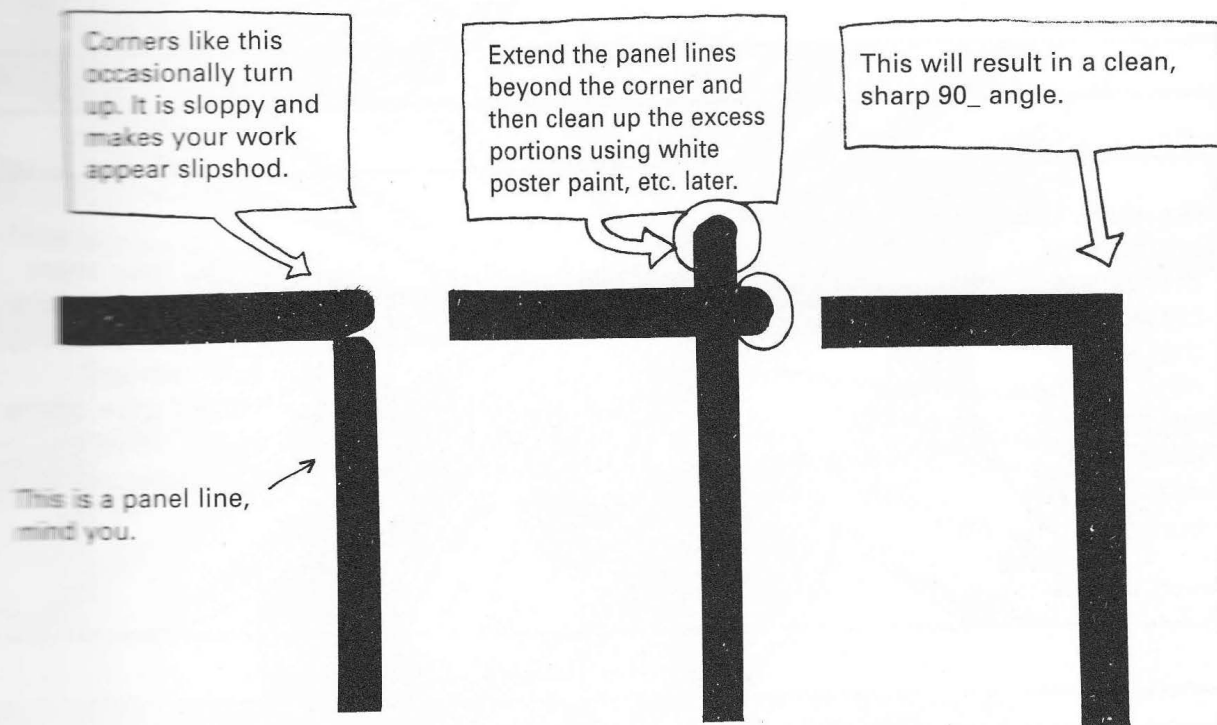
This is a simple tool. Plus, if it gets rusty, you can easily throw it away. After all, at the end of every day you will find yourself with more old nibs.





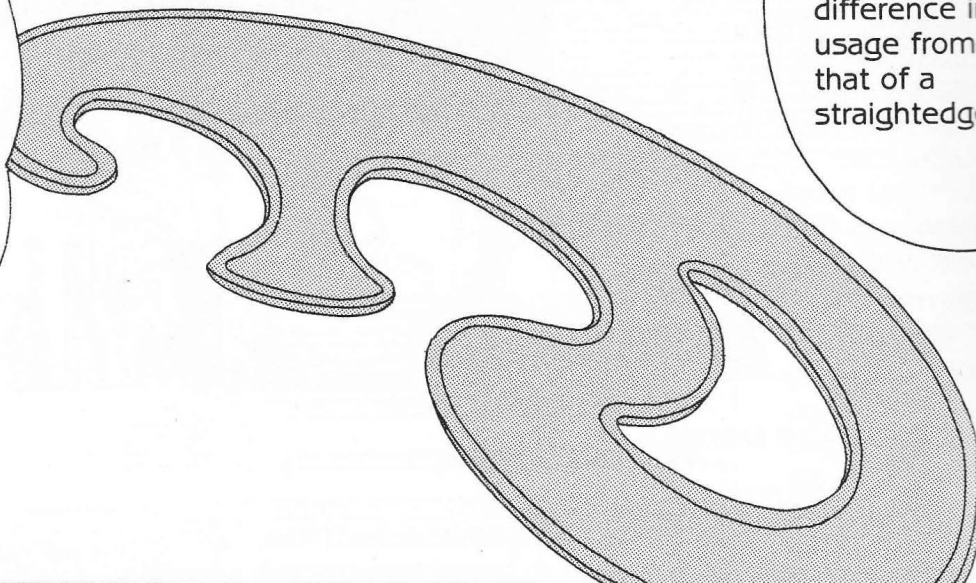


And that is the panel's corners.



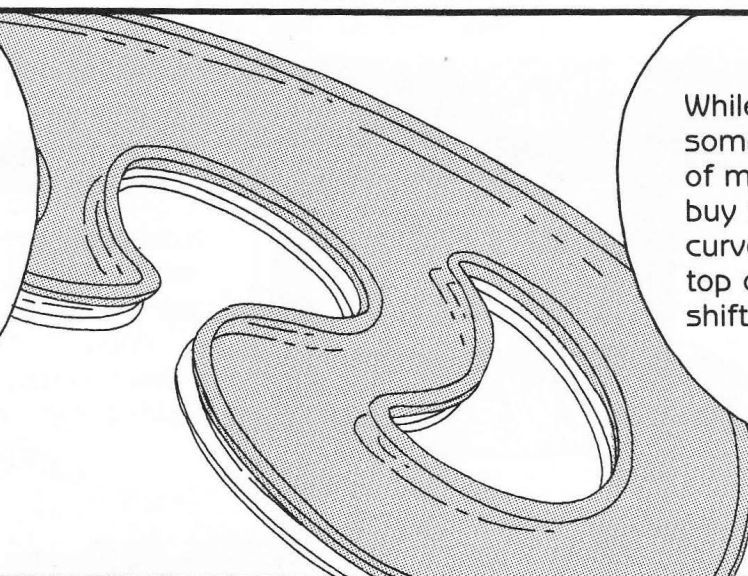
Well then, our next topic is creating lines using a French curve.

Basically, there is no difference in usage from that of a straightedge.

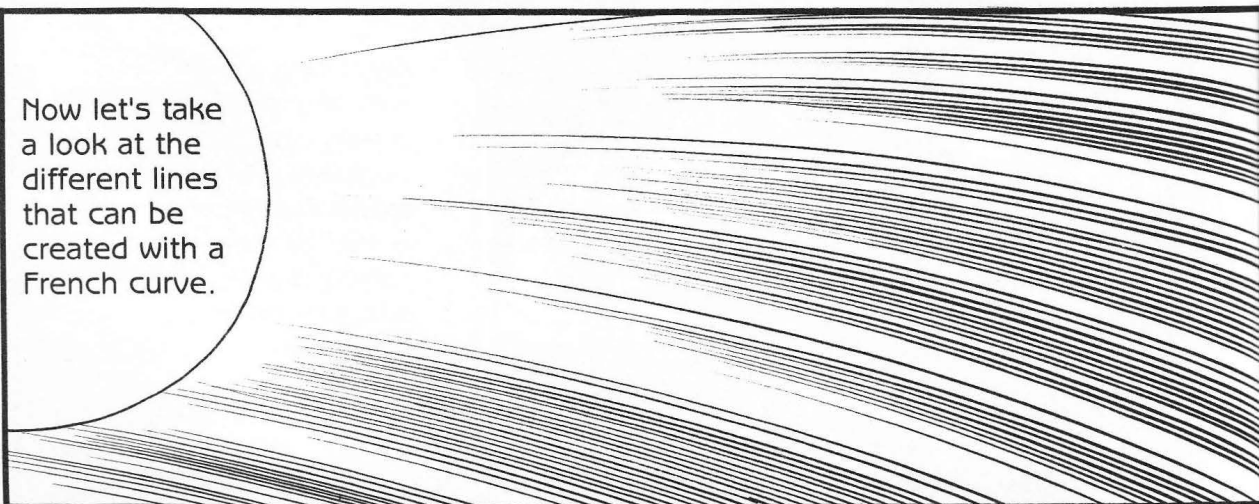


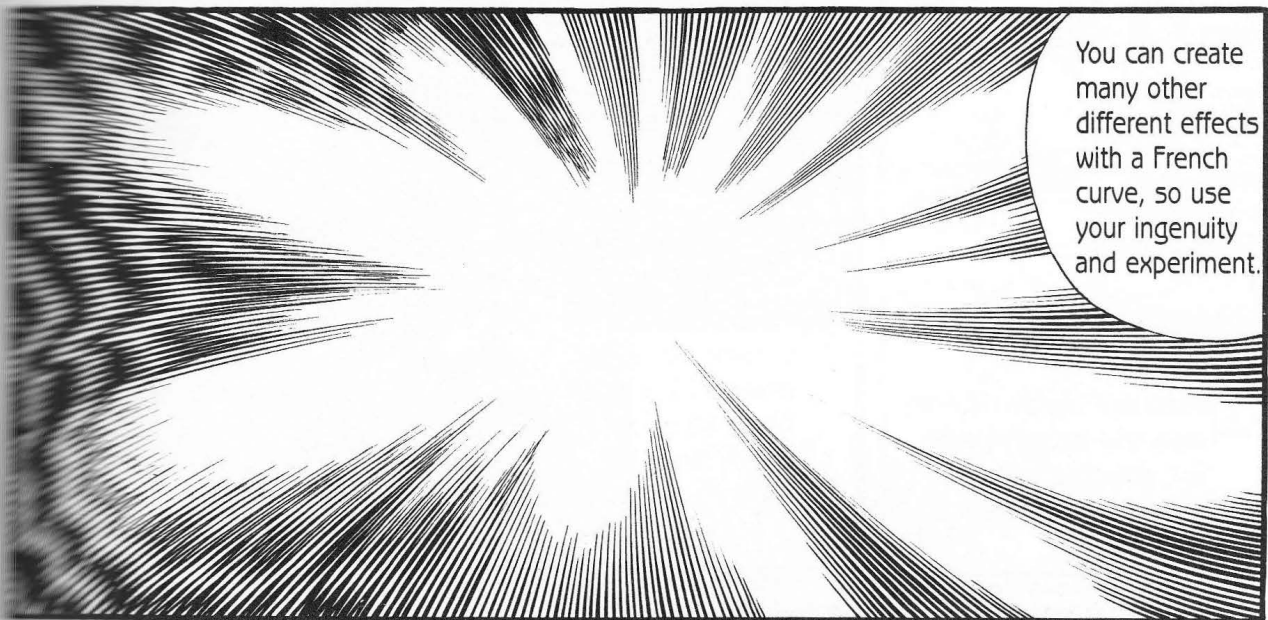
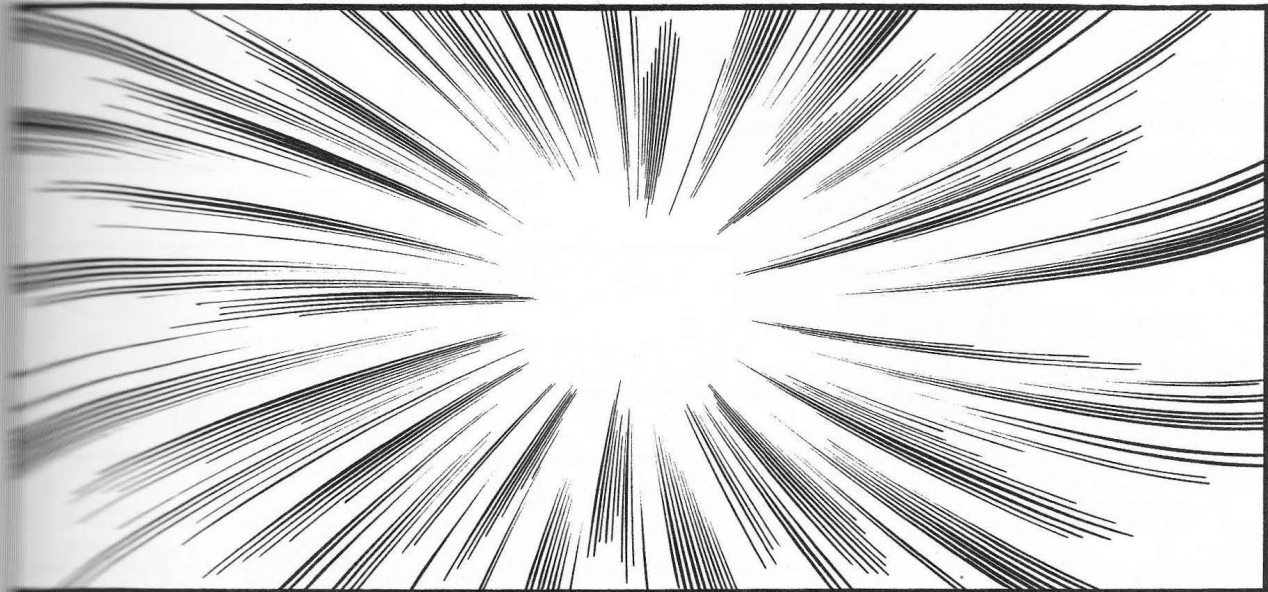
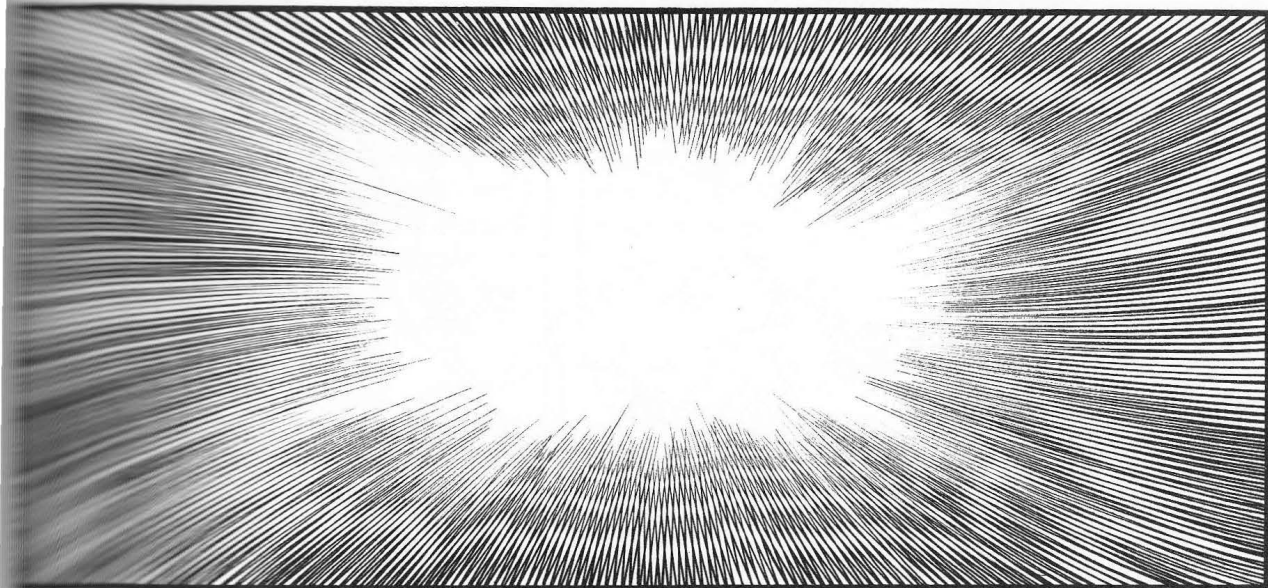
However, the thinness of the French curve means that it is easy for the ink to come in contact with the curve.

While this may seem somewhat like a waste of money, what I do is buy two identical curves and glue one on top of the other, shifting them slightly.



Now let's take a look at the different lines that can be created with a French curve.

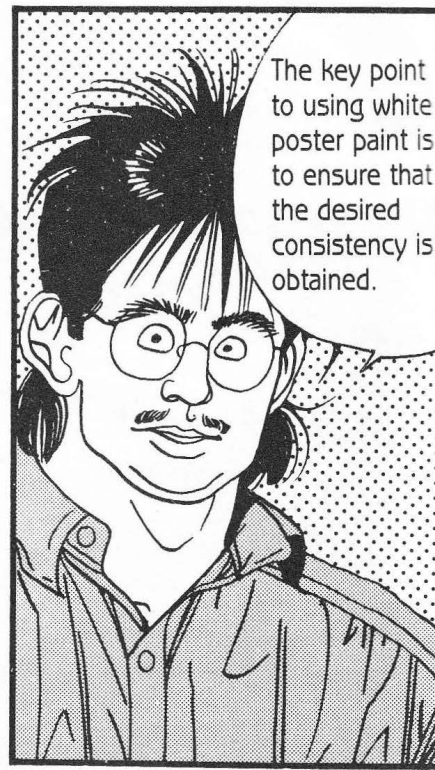
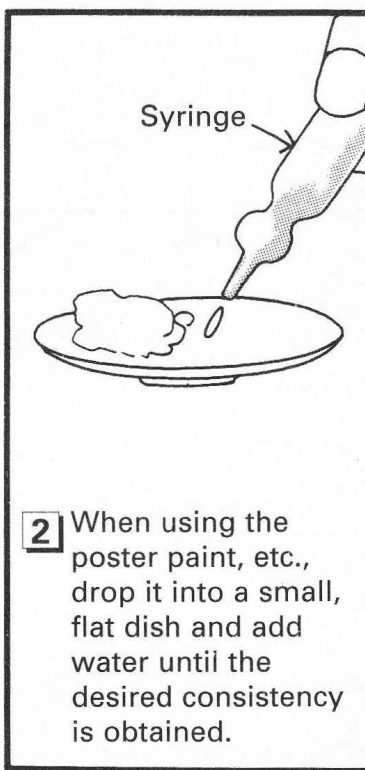
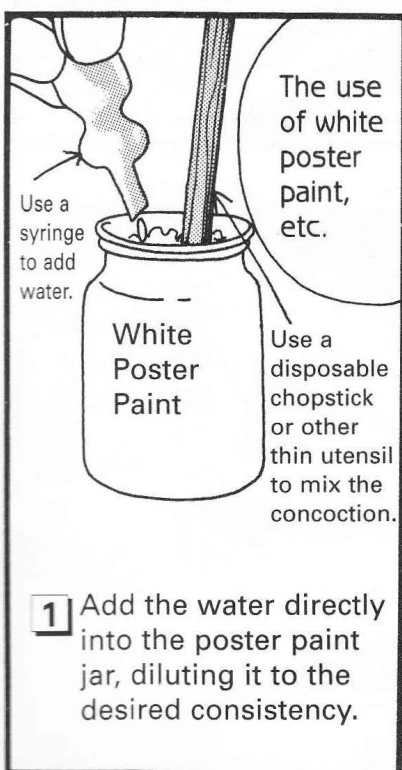
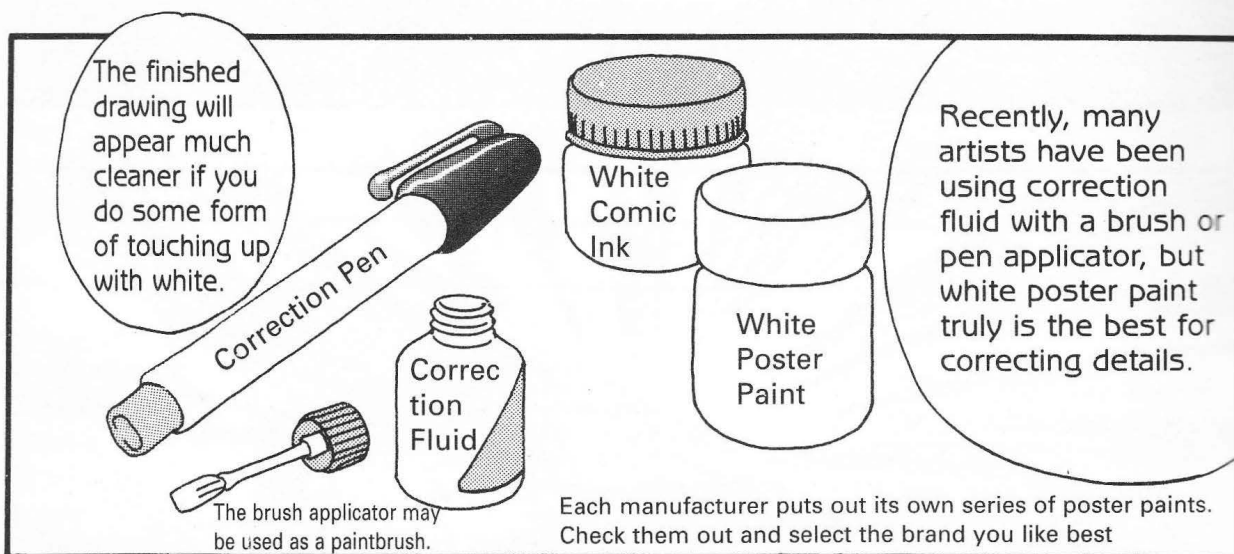
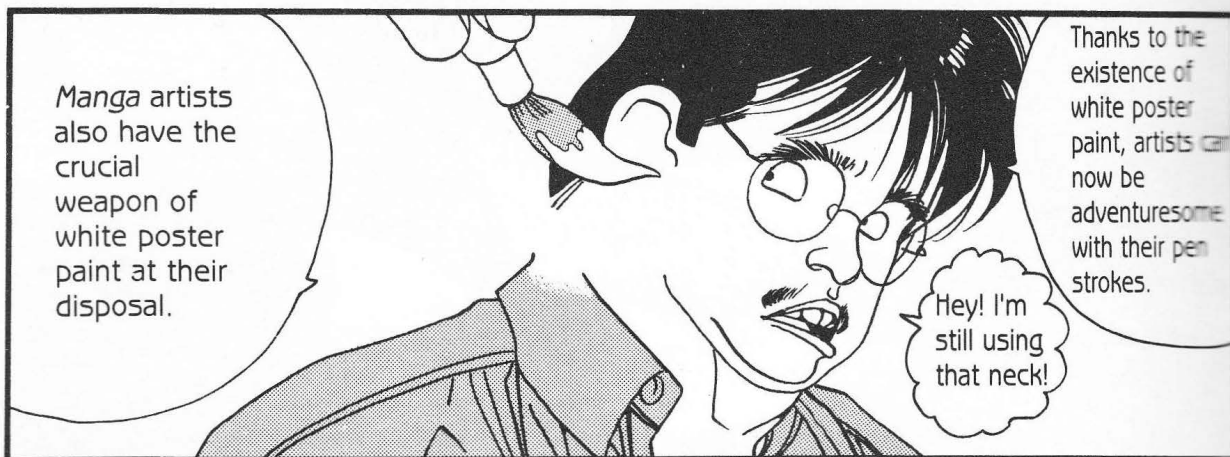




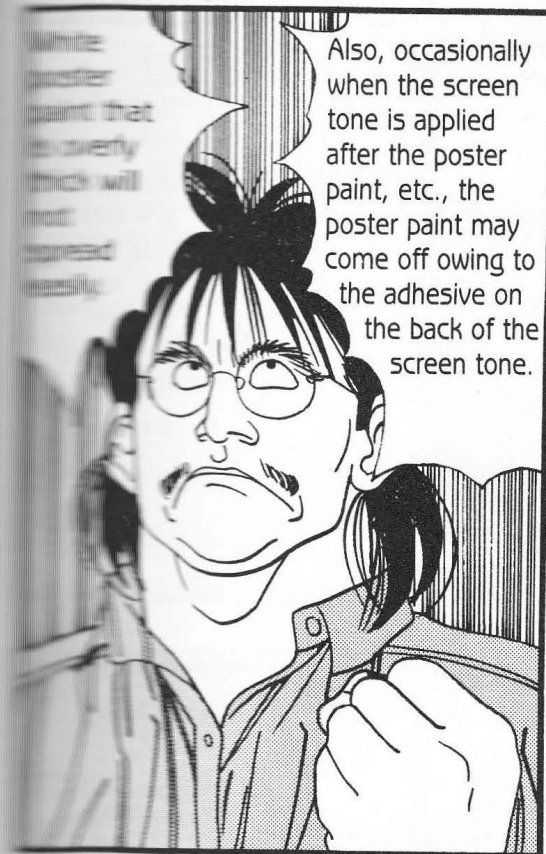
You can create many other different effects with a French curve, so use your ingenuity and experiment.

**A** Use them to express excitement or bounding emotions in the main character, or to express stirred emotions.



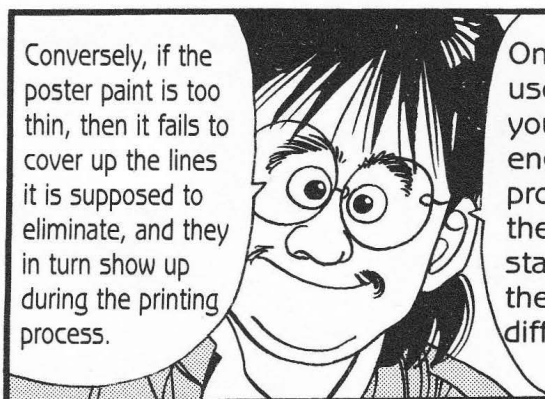


**Q** There are both solvent and water-based types of correction fluid. Which is the most versatile to use?



White poster paint that is overly thick will not spread evenly.

Also, occasionally when the screen tone is applied after the poster paint, etc., the poster paint may come off owing to the adhesive on the back of the screen tone.



Conversely, if the poster paint is too thin, then it fails to cover up the lines it is supposed to eliminate, and they in turn show up during the printing process.

Once you get used to it, you shouldn't encounter any problems. It's the initial stage that is the most difficult.



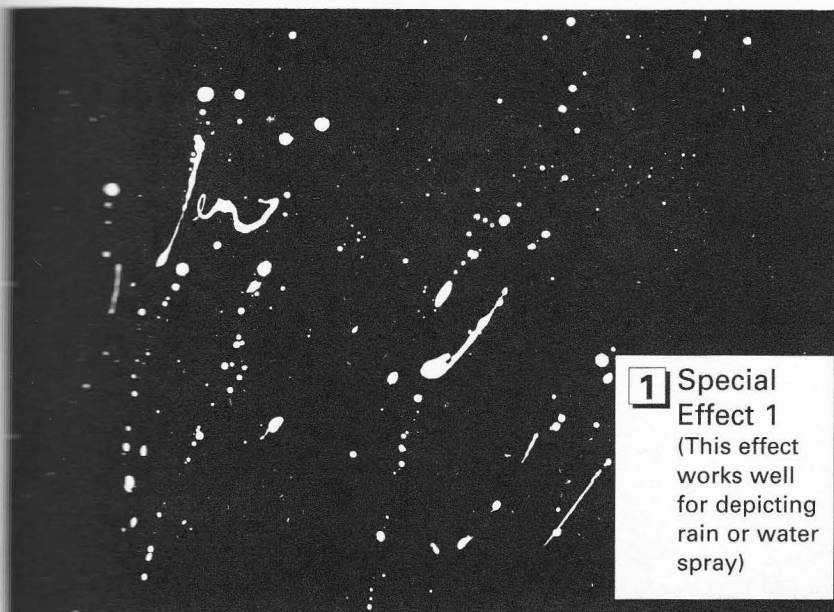
One more point. Always make sure you put the lid back on tightly after using the white poster paint.

Poster paint tends to harden quickly, and you may find it difficult to use the paint if you don't close the jar properly.



All right!  
So, next we have  
**SPECIAL EFFECTS IN WHITE!**

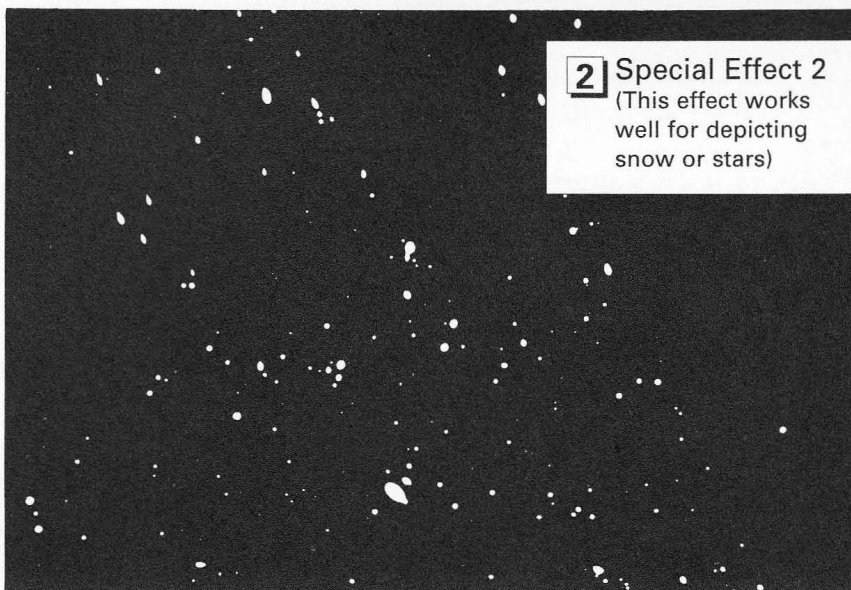
Oops! The white was a little too clumpy. ↓



**1** Special Effect 1  
(This effect works well for depicting rain or water spray)



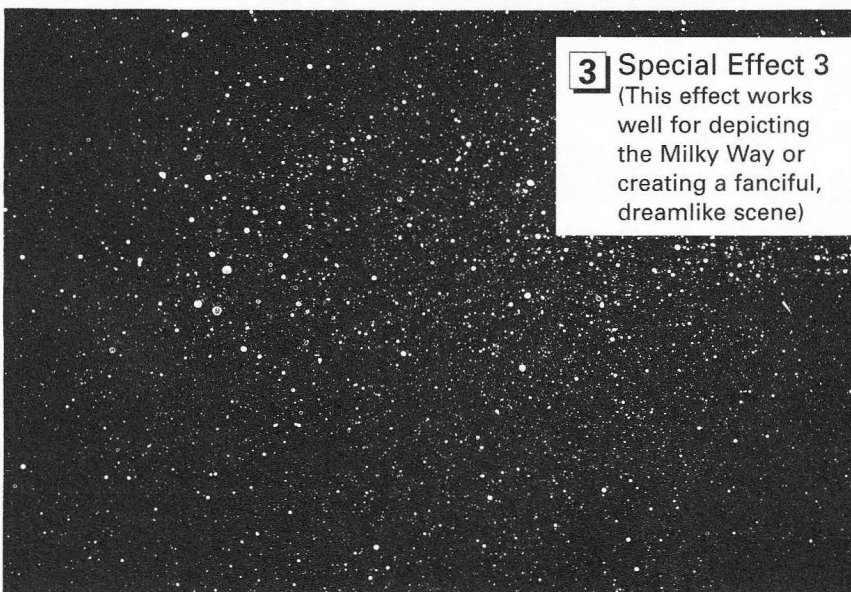
**1** Take a brush and flip it against the lip of the bottle.



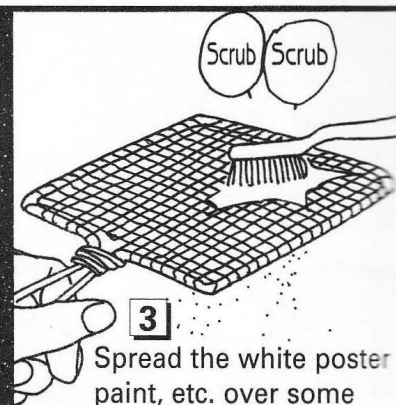
**2** Special Effect 2  
(This effect works well for depicting snow or stars)



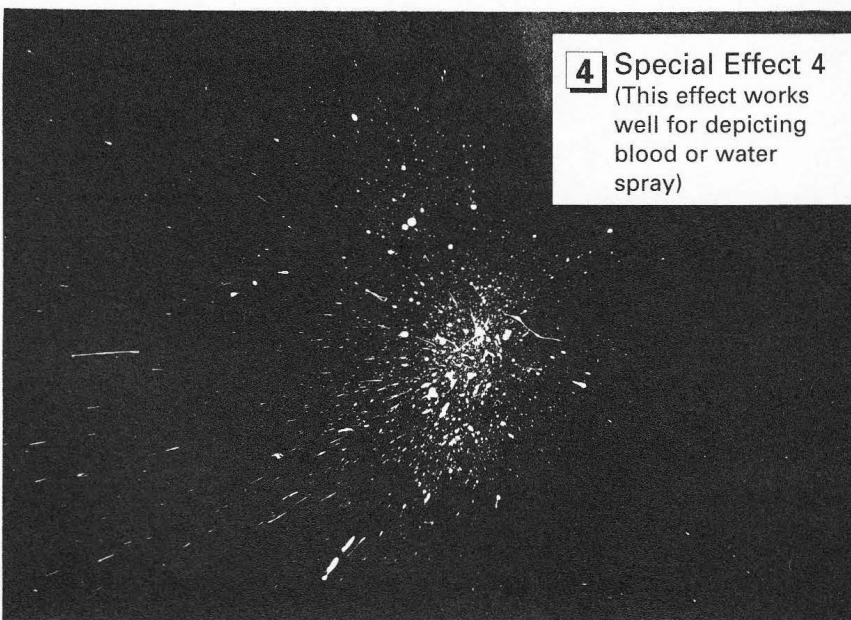
**2** Tap the brush against a finger, spattering the white poster paint, etc. across the panel.



**3** Special Effect 3  
(This effect works well for depicting the Milky Way or creating a fanciful, dreamlike scene)



**3** Spread the white poster paint, etc. over some form of wire netting, and rub a toothbrush or similar utensil over the netting to spatter the paint.

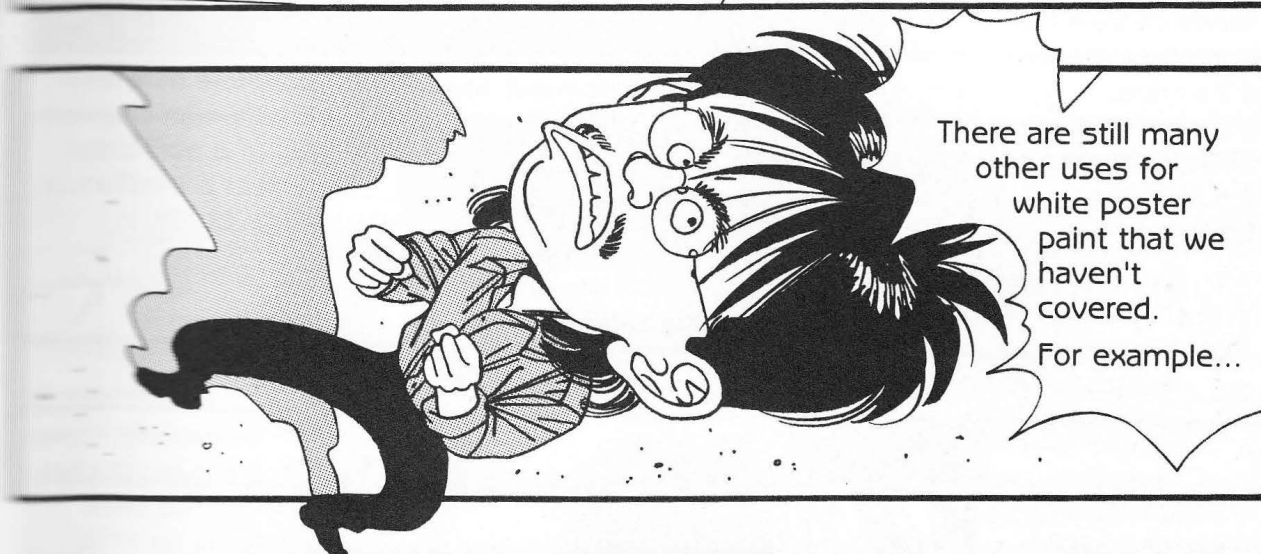
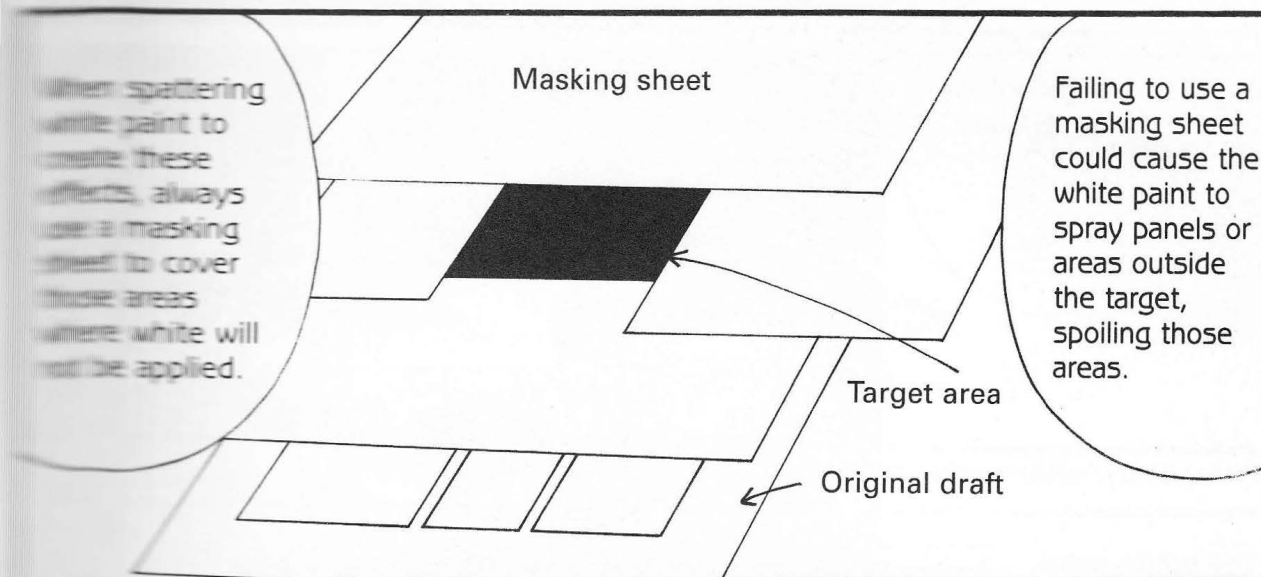


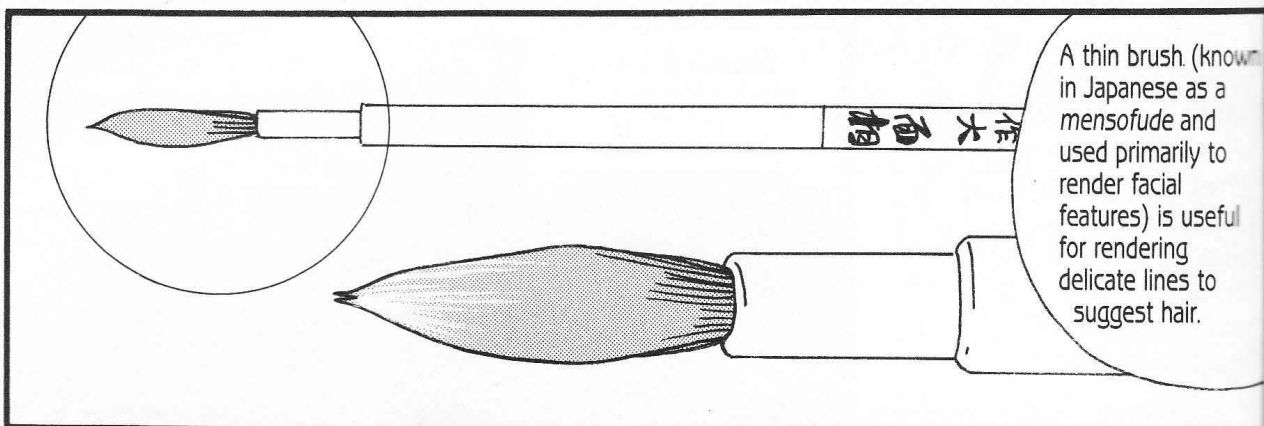
**4** Special Effect 4  
(This effect works well for depicting blood or water spray)



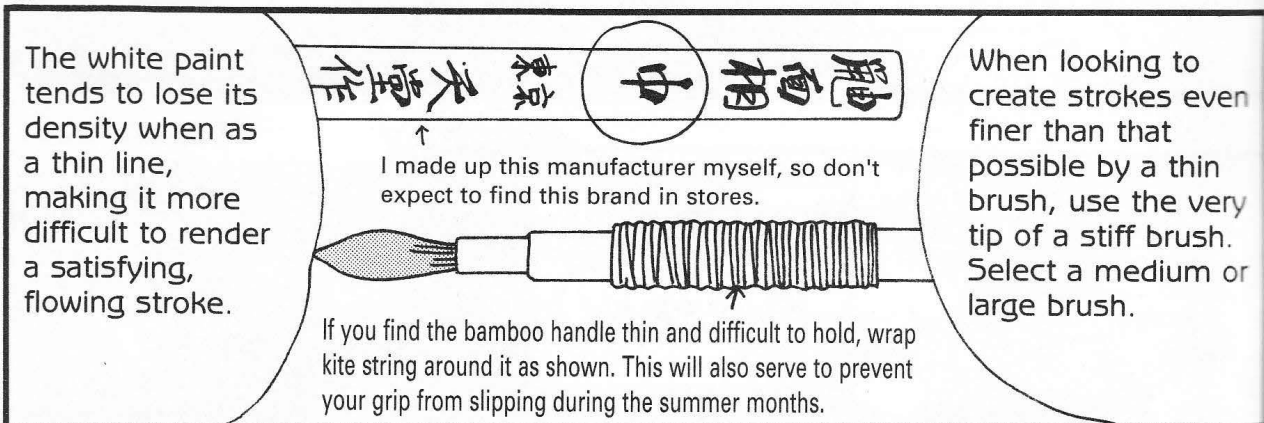
**4** Leaning over the paper, blow on a brush that had been dipped in white poster paint, etc.



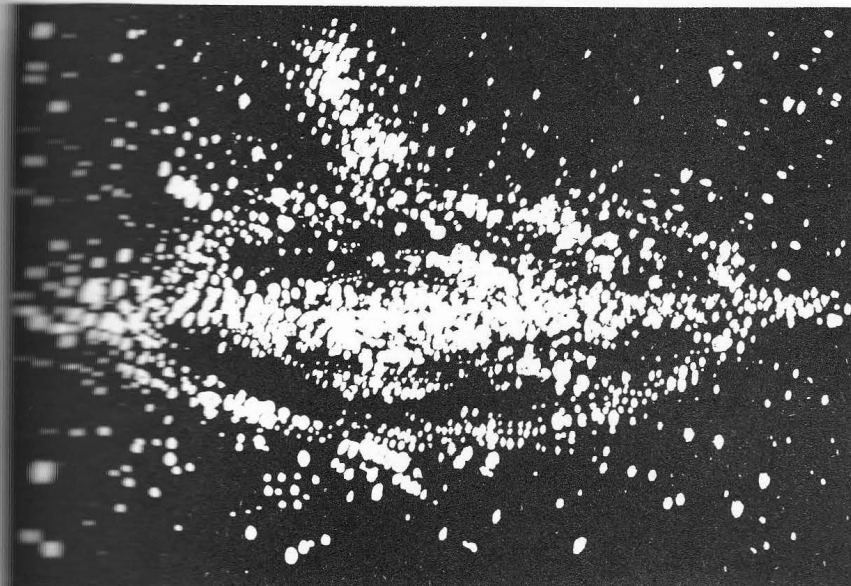




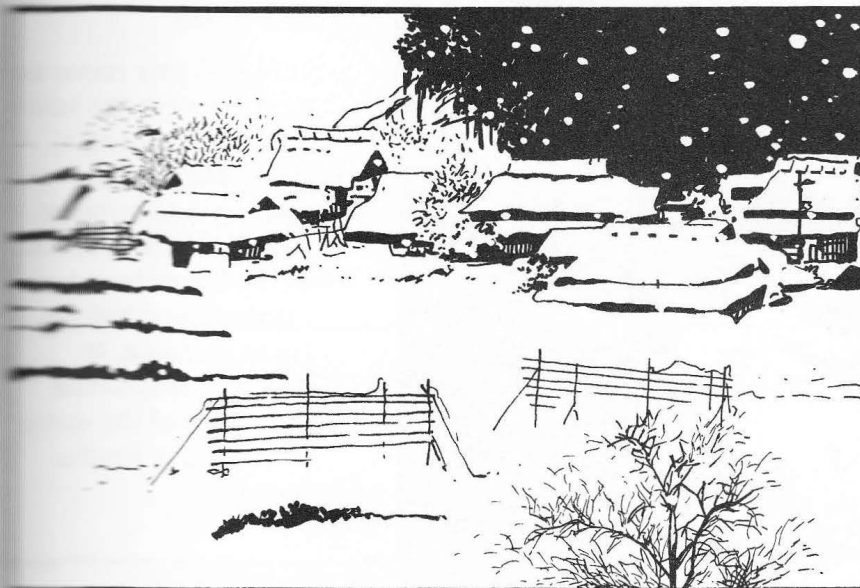
Alternatively, white poster ink could be used on a pen nib instead.



## More Special Effects in White



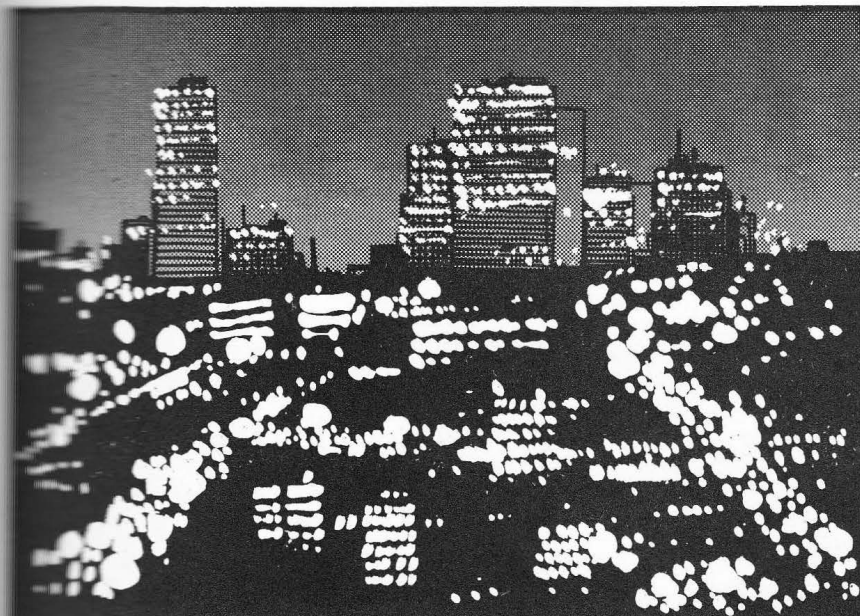
**1** A Galaxy Created over Solid Black



**2** A Snowy Landscape

Snow covered landscapes look most effective at a ratio of 7:3. A ratio of black:7, white:3 creates a sad, lonely landscape.

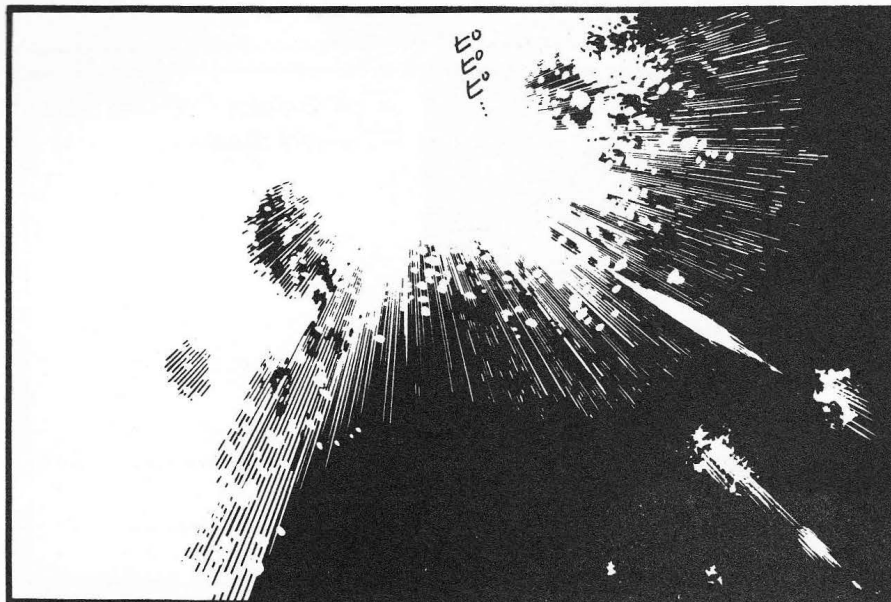
A ratio of white:7, black:3 paints a brighter, more cheery scene. [Use a brush pen (*fude pen*) for dark shadows underneath the snow.]



**3** A Far Town with the Foreground in Solid Black

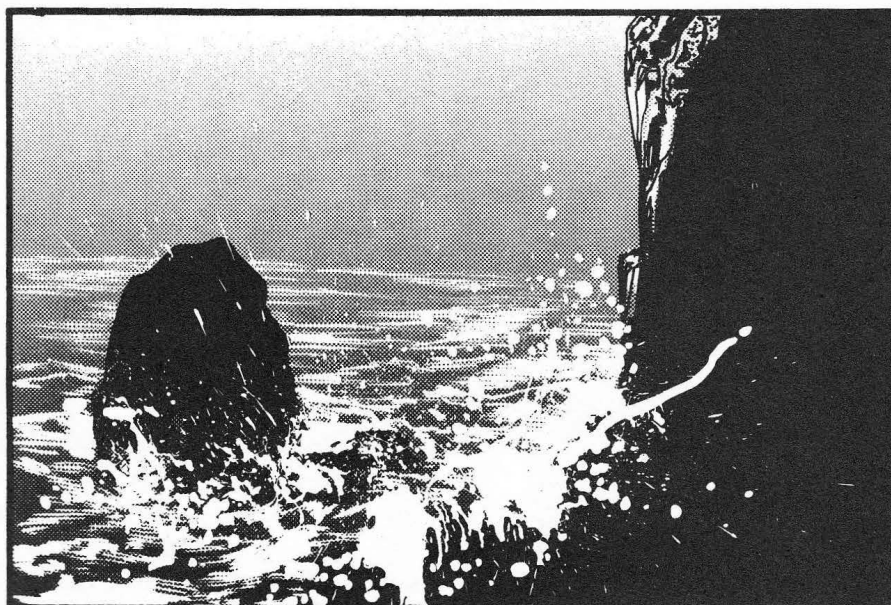
In this scene, white poster paint has been used over the solid black. (The city's downtown has more lights and appears brighter, while the area closer to the picture plane, which is more distant from the downtown, has less light and is consequently darker.)





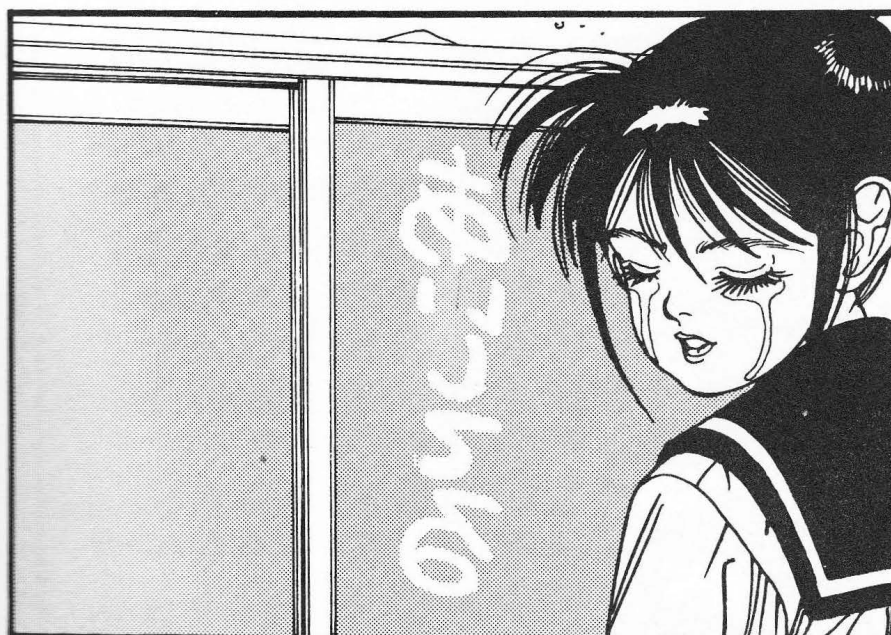
#### 4 Light Filtering through Trees

Like you would with *beta* flash, draw lines radiating toward a center point and add white to suggest leaves and light playing through tree branches.



#### 5 Sea Spray

I created this scene by first drawing the rocks and then affixing IC 433 screen tone, etching it to suggest waves. I rendered the spray from the waves crashing against the rocks in white. In order to emphasize the white of the spray, I used black for the rocks.



#### 6 Adding Lettering on Top of Screen Tone

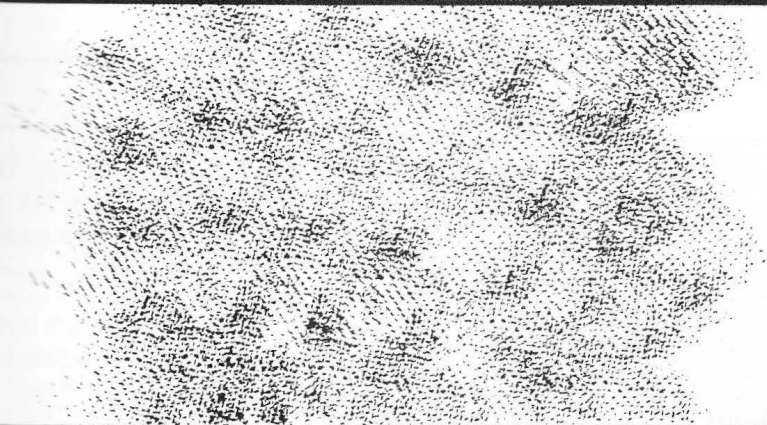
I created this scene by affixing a sheet of IC 62 screen tone to the window and then writing "Ai shiteiru" ("I love you") in pencil on the reverse side of the drawing. I then placed the drawing on a light table and wrote over the penciled words in white.

## Special Effects Using Multiple Materials

As I mentioned earlier, any sort of material may be used in the creation of manga, provided that the drawing is clearly rendered in black.

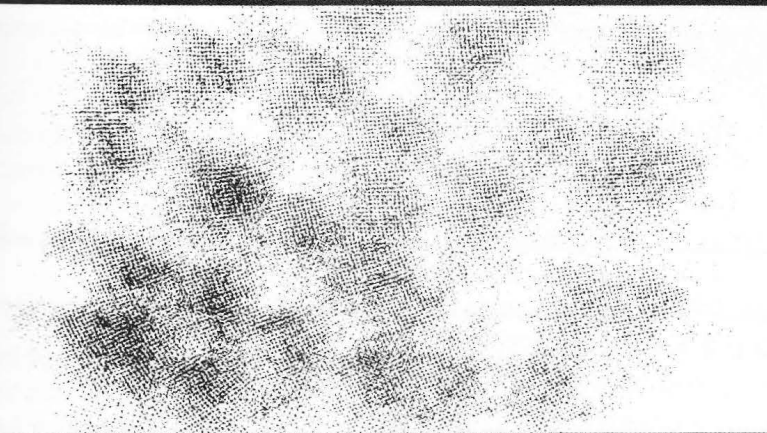


Since we are on the topic, I thought I might mention a few more effects that can be created using other materials.



**A Piece of Gauze Coated in *Sumi* (India Ink)**

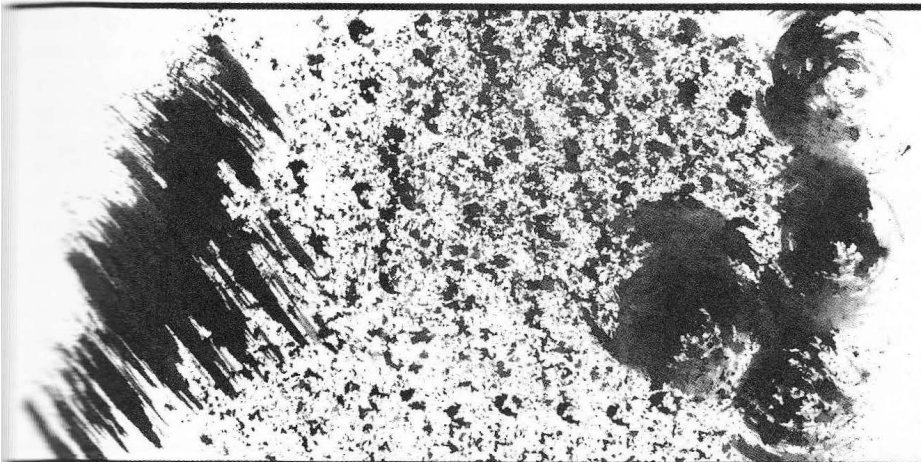
**Pressed onto the Surface of the Draft**



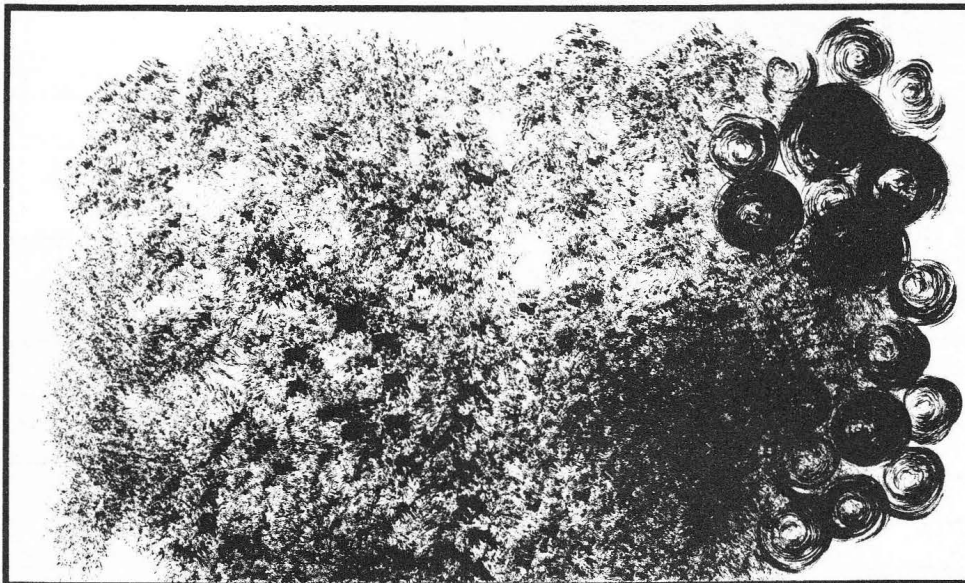
**A Cotton Handkerchief Coated in *Sumi* (India Ink)**

**Pressed onto the Surface of the Draft**

(Handkerchief tapped to achieve effect)

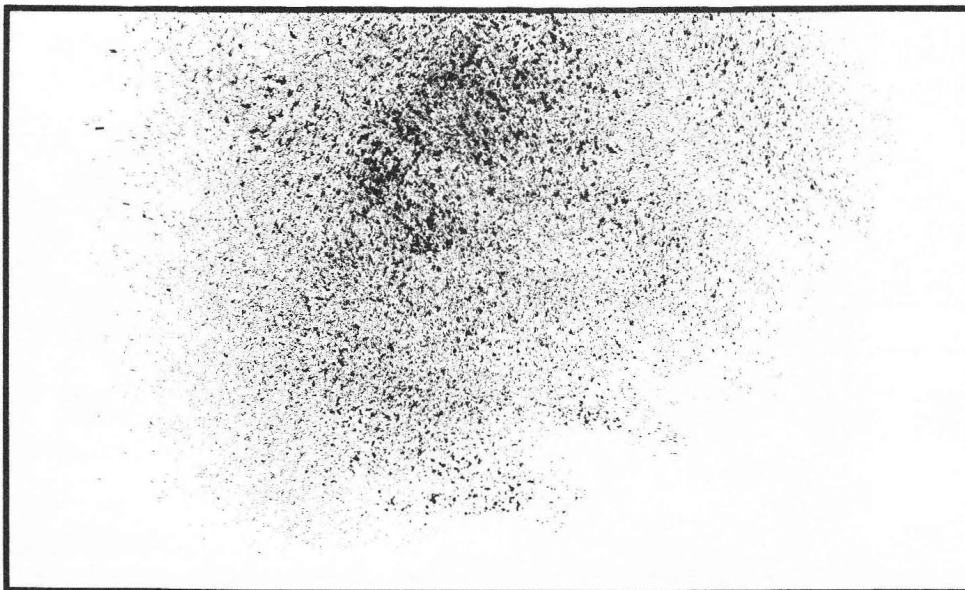


**A Plastic Kitchen Scrub Brush**



**Trimmed, No-Longer-Usable Brushes**

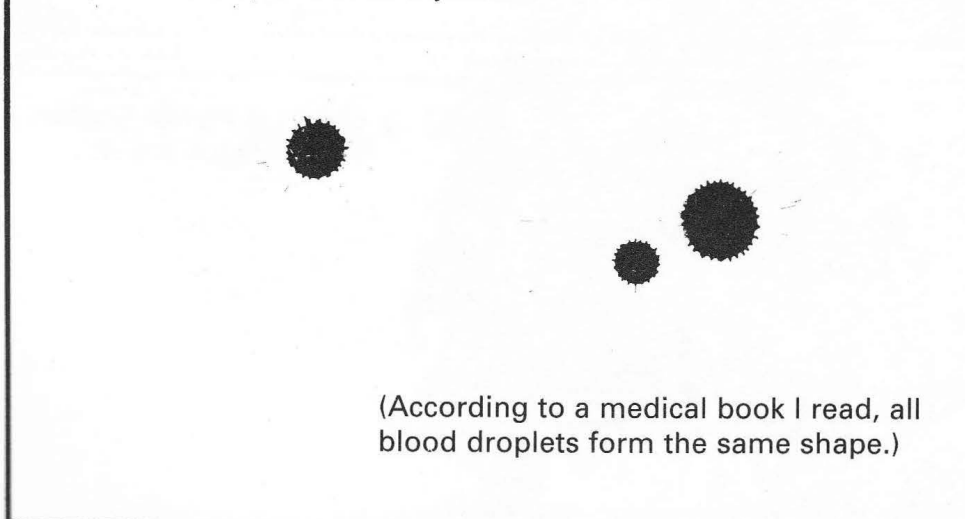
This works well for showing trees in the distance or smoke.



**A Sponge Coated in India Ink and Pressed onto the Draft**

If a large bee were added to the front of the composition, then this could appear to be a swarm of bees.

This can be used to suggest the bloody foot prints left by someone injured.



(According to a medical book I read, all blood droplets form the same shape.)

**A Drop of India Ink Released with a Syringe from 1 m. (approx. 1 yd.) Above**

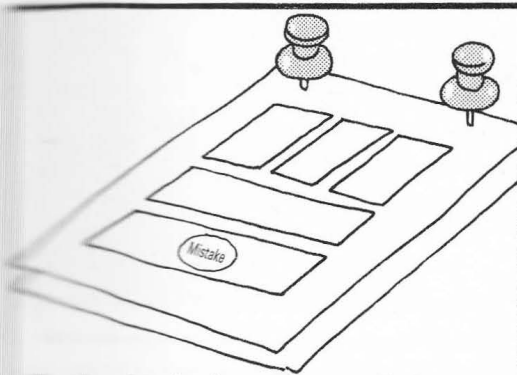
This takes considerable time to dry, so do this about 2 to 3 days in advance of using it.



There are likely many other potential materials out there that produce interesting effects. Try discovering them on your own. When I was young, I would dip just about anything in India ink and press it onto my drawings.



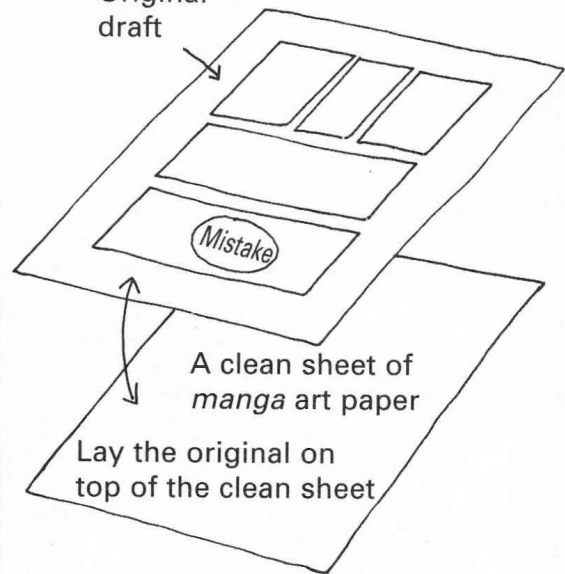
Now let's look at how to cut out and replace any botched areas.



The thumbtacks do not necessarily have to be in the same position as that shown here, but you should still be sure to use 2.

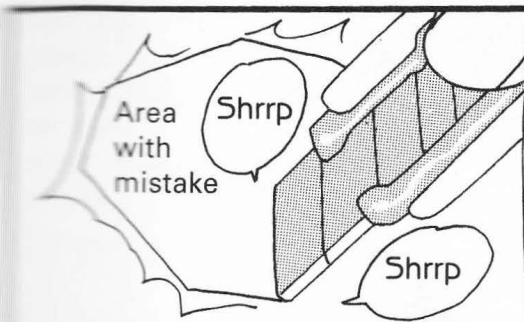
Lay one sheet on top of the other and hold them in place using thumbtacks (The paper may move if only 1 thumbtack is used, so be sure to use 2.)

Original draft



A clean sheet of manga art paper

Lay the original on top of the clean sheet

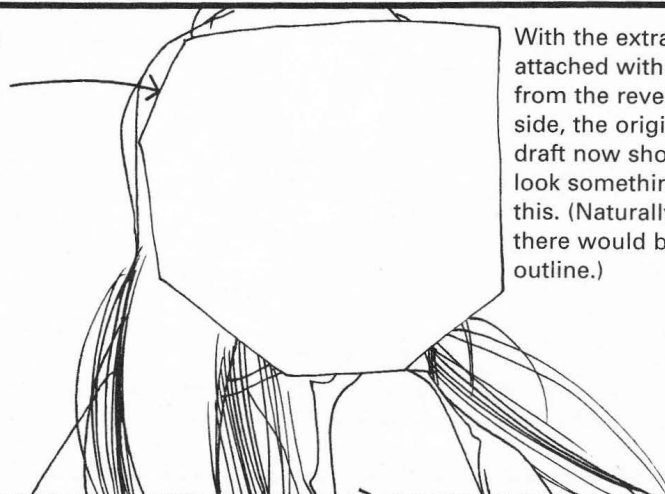


Using a craft knife, cut away simultaneously both the area of the original draft bearing the mistake and the clean sheet underneath.

It is not necessary to use an entire clean sheet of manga art paper. An amount capable of covering the area with the mistake is sufficient.

In order to protect your desktop, lay down a cutting mat first.

Craft knives do have thick blades, and occasionally the line where the original draft was cut becomes visible during the printing process. For that reason, you may find using a razorblade, which is thinner, more effective. If you do, be careful not to cut yourself.

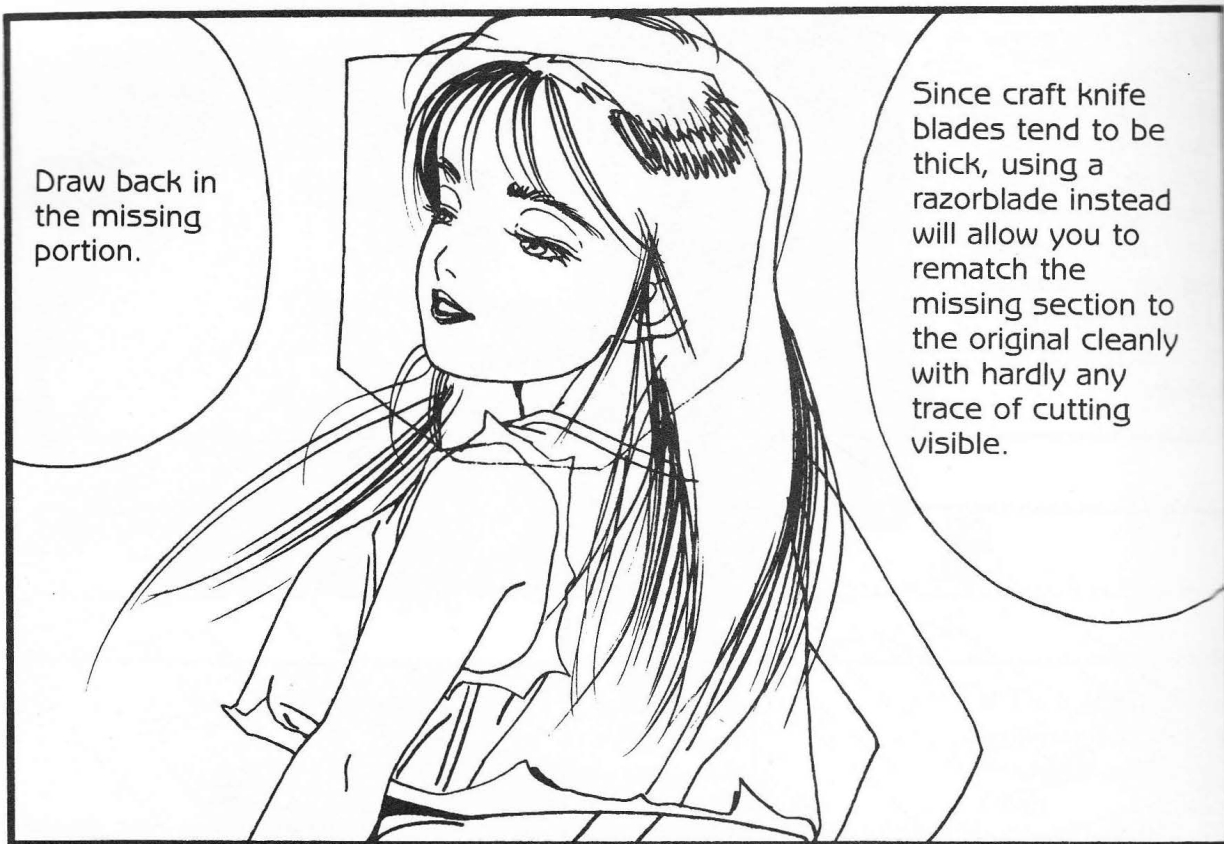


With the extra piece attached with tape from the reverse side, the original draft now should look something like this. (Naturally, there would be no outline.)

Cut out an identically sized section of the clean sheet underneath. Fit this into the appropriate spot of the original draft and attach with tape on the reverse side.

Draw back in  
the missing  
portion.

Since craft knife  
blades tend to be  
thick, using a  
razorblade instead  
will allow you to  
rematch the  
missing section to  
the original cleanly  
with hardly any  
trace of cutting  
visible.



See! Since you can  
cover your  
mistakes using  
this technique, be  
venturesome and  
take risks without  
being afraid of  
ruining your  
artwork.



So then, we've discussed various points regarding lines and strokes, and I imagine that you have a fairly good grasp of it now.

A certain painter once said, "In order to draw satisfying lines, one should practice on the same height of stacked paper that one is tall."

Such importance is placed on being able to draw a line skillfully, because even with the same under drawing, entirely different completed compositions can result depending on how the inked lines are handled.

So, be sure to practice using the pen every day. Even 10 minutes a day would be enough.

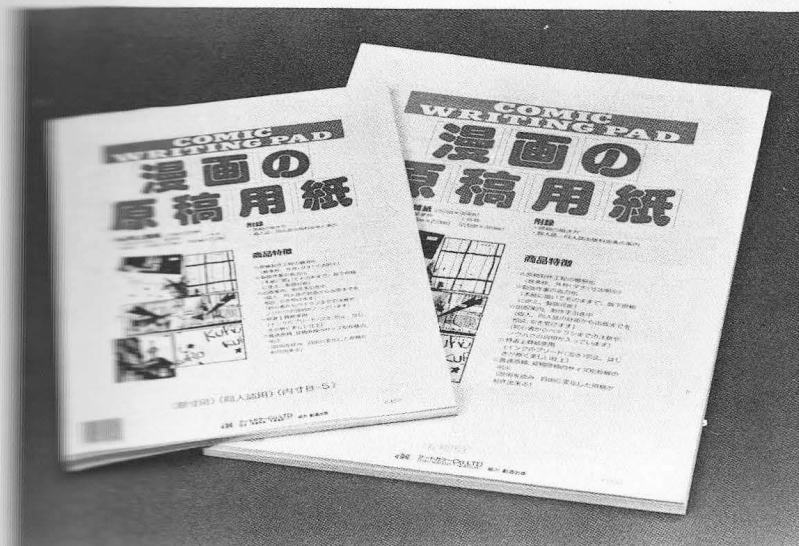
**Got it?!**





"The key to skillfully rendering a background is to generate the sense of an inhabited town, house, school, or other such space. Failure to do so results in a simple projection drawing. Drama occurs because people are present. Even if you draw an uninhabited background, it will still be lacking in drama. Look at your room. It probably contains a number of items necessary to living. If you look at someone's room, you will likely find evidence of that person's interests and preferences. Make an effort to imbue your backgrounds in *manga* with evidence of human life!"

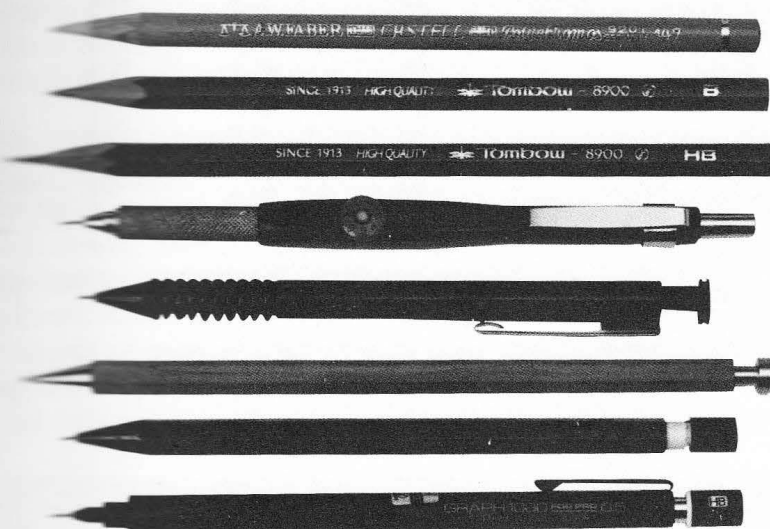
# Penning Materials and Tools



Products shown courtesy of Art Color

## Manga Art Paper

High quality Kent paper and drawing paper are often used as *manga* art paper; however, today specialized *manga* art paper with preprinted margin lines and ruling marks in blue have made their appearance on the market.



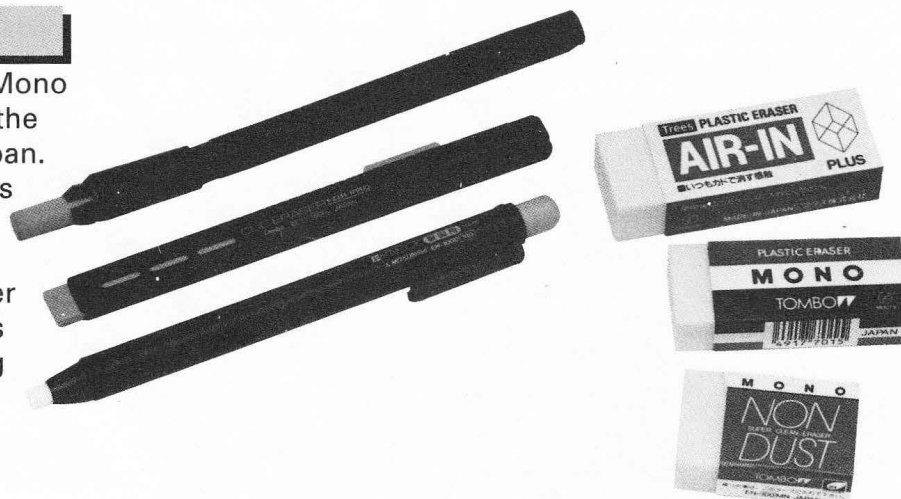
Products shown courtesy of Too Corporation

## Pencils (Mechanical)

The way a pencil feels when it writes varies from product to product. Try out a variety of pencils and select the one that feels best to you. HB, B, and 2B seem to be the most popular leads.

## Erasers

Tree's Air-in and Tombo's Mono plastic erasers seem to be the most popularly used in Japan. With respect to size, erasers that are too large can be unwieldy, so try to select a medium-sized eraser. Eraser pens are thin and the refills fit inside the barrel, making them easy to use.

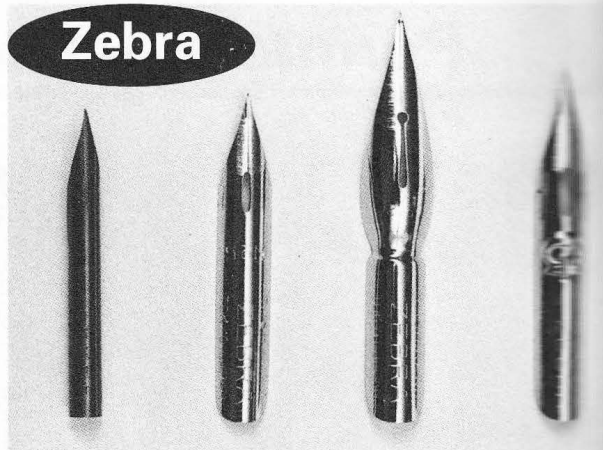


Products shown courtesy of Too Corporation

## Pen Nibs

There is a wide variety of different pen nibs available, and each has its own characteristics. G-pens and *maru* (crow quill) pens glide smoothly over the paper, and consequently artists tend to favor these nibs for rendering characters.

## Zebra



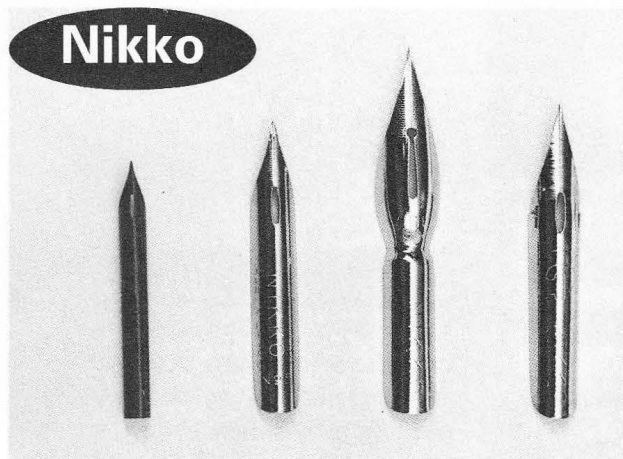
Maru Pen  
(Crow Quill Pen)

School Pen

Kabura Pen  
(Spoon Pen)

G-Pen

## Nikko



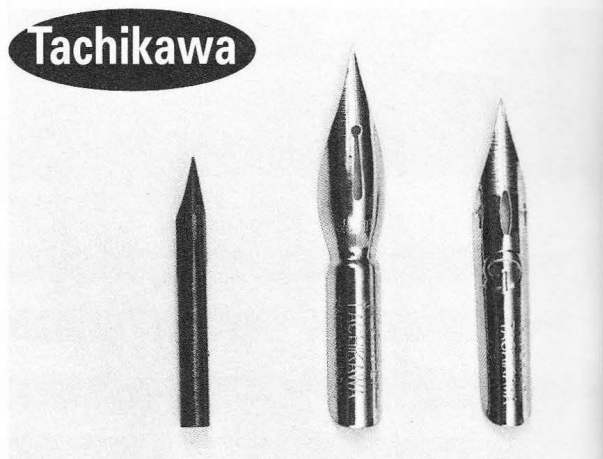
Maru Pen  
(Crow Quill Pen)

School  
Pen

Kabura Pen  
(Spoon Pen)

G-Pen

## Tachikawa



Maru Pen  
(Crow Quill Pen)

Kabura Pen  
(Spoon Pen)

G-Pen

## Penholders

The artist spends many long hours grasping the penholder, so try to select one that is comfortable. Only the *maru* (crow quill) pen comes with its own specialized holder, so take care when purchasing penholders.



Products shown courtesy of Too Corporation



## Inks

Black drafting film ink and Kaimei's India ink are the most commonly used inks. However, there are occasions when these inks may dissolve owing to the drawing area becoming too wet (such as when white poster paint, etc. has been added). There are *manga* artists who, seeking to avoid such a situation, use waterproof inks such as Pilot's ink for certificates and official documents or Kaimei's Lettering Sol.



Products shown courtesy of Too Corporation

## Brush pens (Fude Pens)

Today, the mainstream method seems to be to use a brush pen when spotting blacks (filling in areas of solid black where needed).



Products shown courtesy of Too Corporation

## Technical Pens

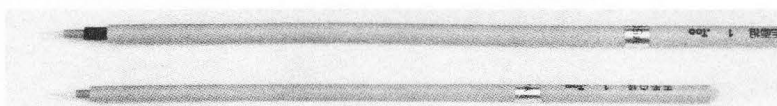
When you require a precise instrument, then a drafting pen is the tool for the job. However, *manga* artwork is not so exacting, so the majority of *manga* artists today lean toward convenient, inexpensive technical pens.



Products shown courtesy of Too Corporation

## Brushes

Brushes used with white poster paint, etc. seem to depend on the individual artist; however, I personally recommend using a fine brush. The effectiveness of the white poster paint or other such material also seems to vary according to the brush used.



Products shown courtesy of Too Corporation

## White Touch-ups

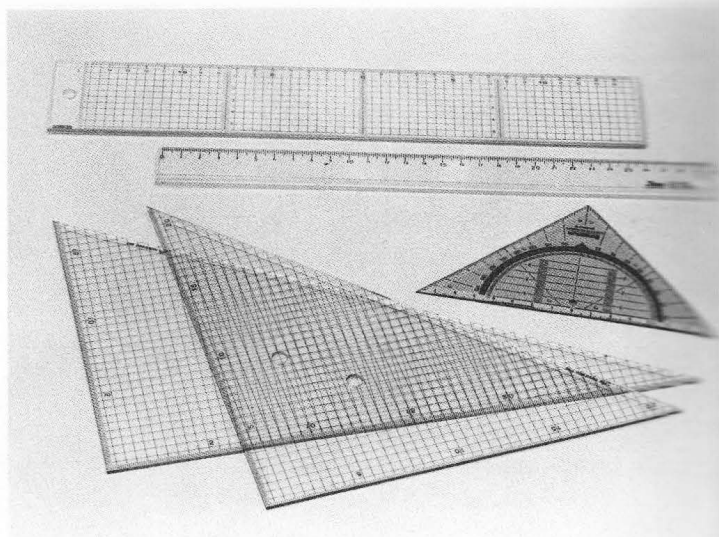
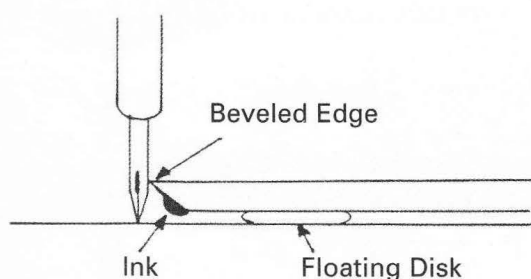
Long ago, white poster paints was the method of choice. Today, there are many products available, including white ink specifically for *manga* as well as correction fluid in pen-shaped applicators (correction pens). Correction fluid allows the artist to cover any tiny mistakes in his or her artwork with the fluid, and then to draw directly over that. It is quite a handy material to have around.



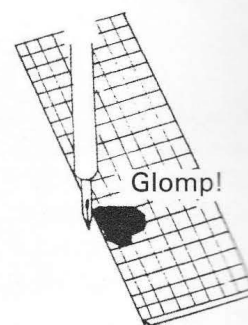
Products shown courtesy of Too Corporation

## Straightedges and Triangles

When selecting your straightedge or triangle, seek something beveled. Some form of a grid or other measurement indicators printed onto the tool will prove a helpful addition. Keep on hand 3 sizes: a small one about 14 cm. (approx. 5 3/4") that can be moved around easily over the drawing, a mid-sized one about 30 cm. (approx. 12") for use with margin lines, and a large one about 40 to 50 cm (approx. 15 1/2 to 19 1/2").



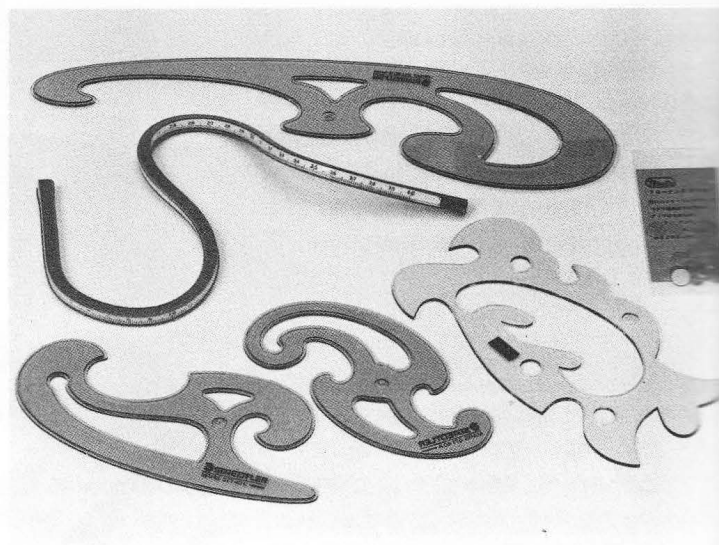
This is a common mistake: the ink slips between the paper and the straightedge, seeping and spreading into the paper. In occasionally seeps under the straightedge when it is beveled, so attaching chips or coins of some kind to the underside is recommended.



## Curves

Try to select curves with beveled edges as well. Round chips or floating disks may be attached to the curve's underside to prevent the curve from touching the ink. Adjustable curves are also available, which are versatile tools that allow you to create freely your own curves. It should be noted that adjustable curves do not have beveled edges, so try to use technical pens with them.

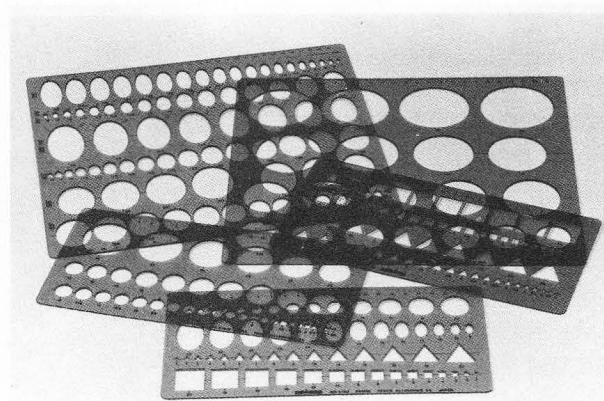
Products shown courtesy of Too Corporation



## Templates

Templates are handy for rendering simple ovals and circles, which you might use for cups or other such circular objects. I had multiple templates for both ellipses and circles.

Products shown courtesy of Too Corporation



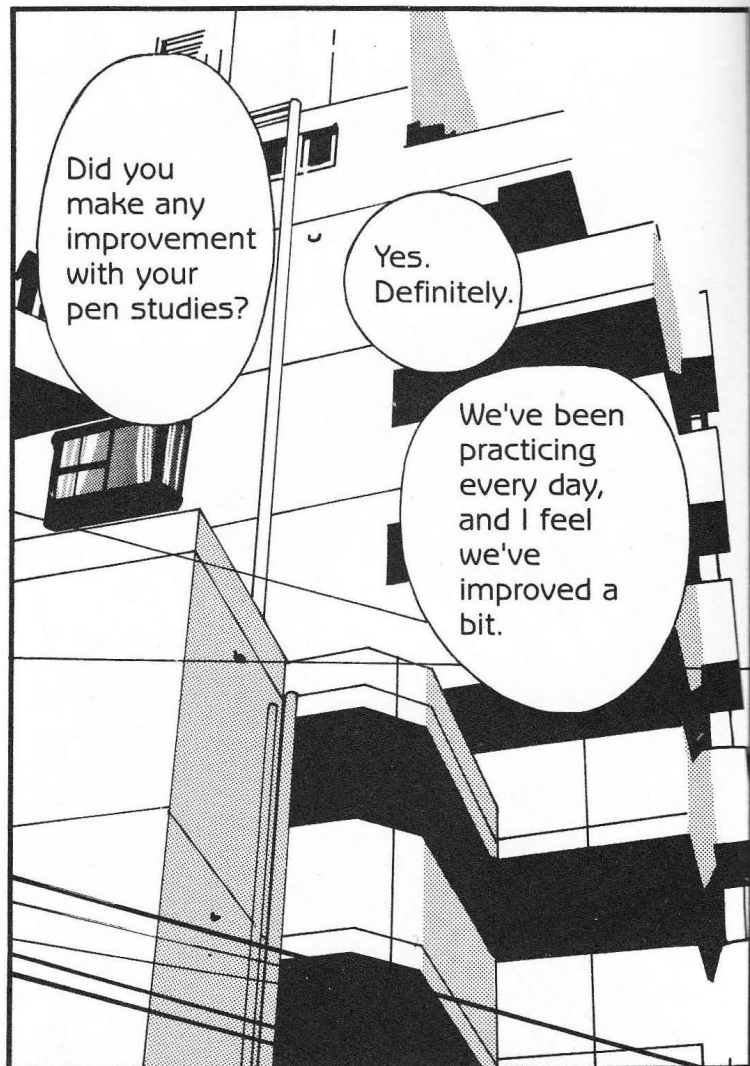
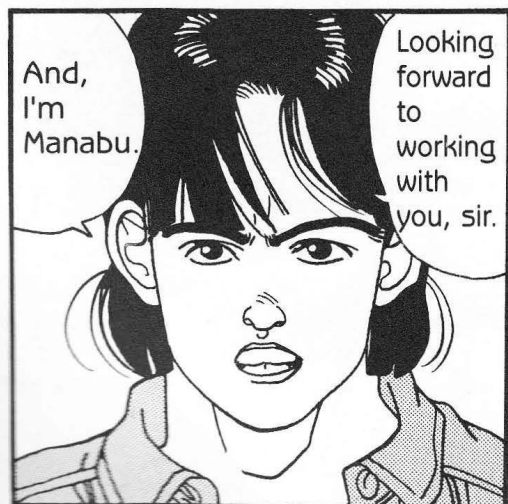
# Screen Tone Techniques



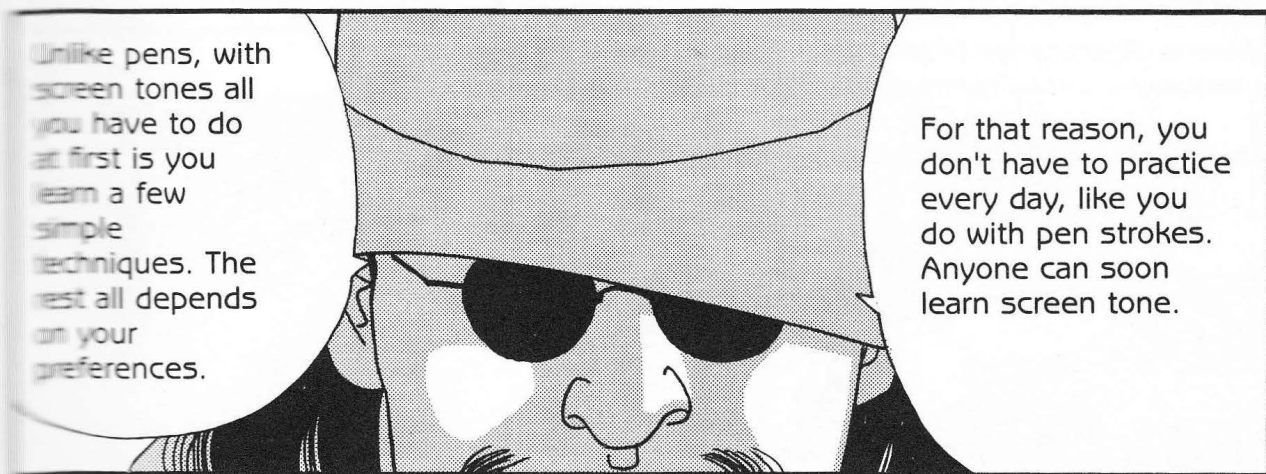
Talk  
about  
special  
bonuses!



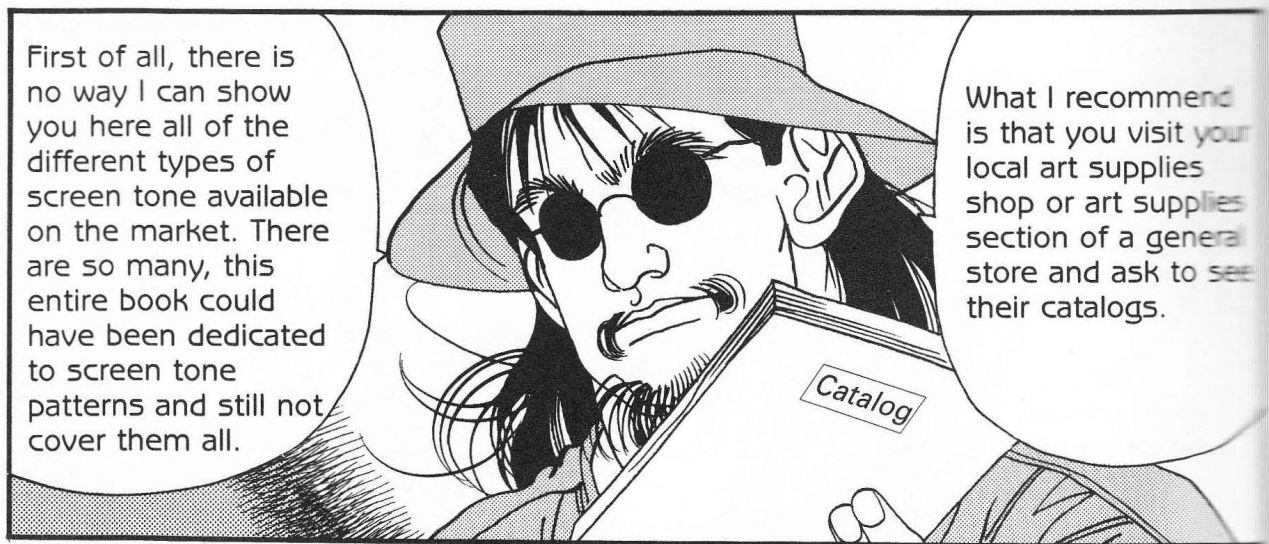




↑ It is important to add a sense of inhabitance (in this case an inhabited apartment building). Take care to ensure the building does not come looking out like a toy model.

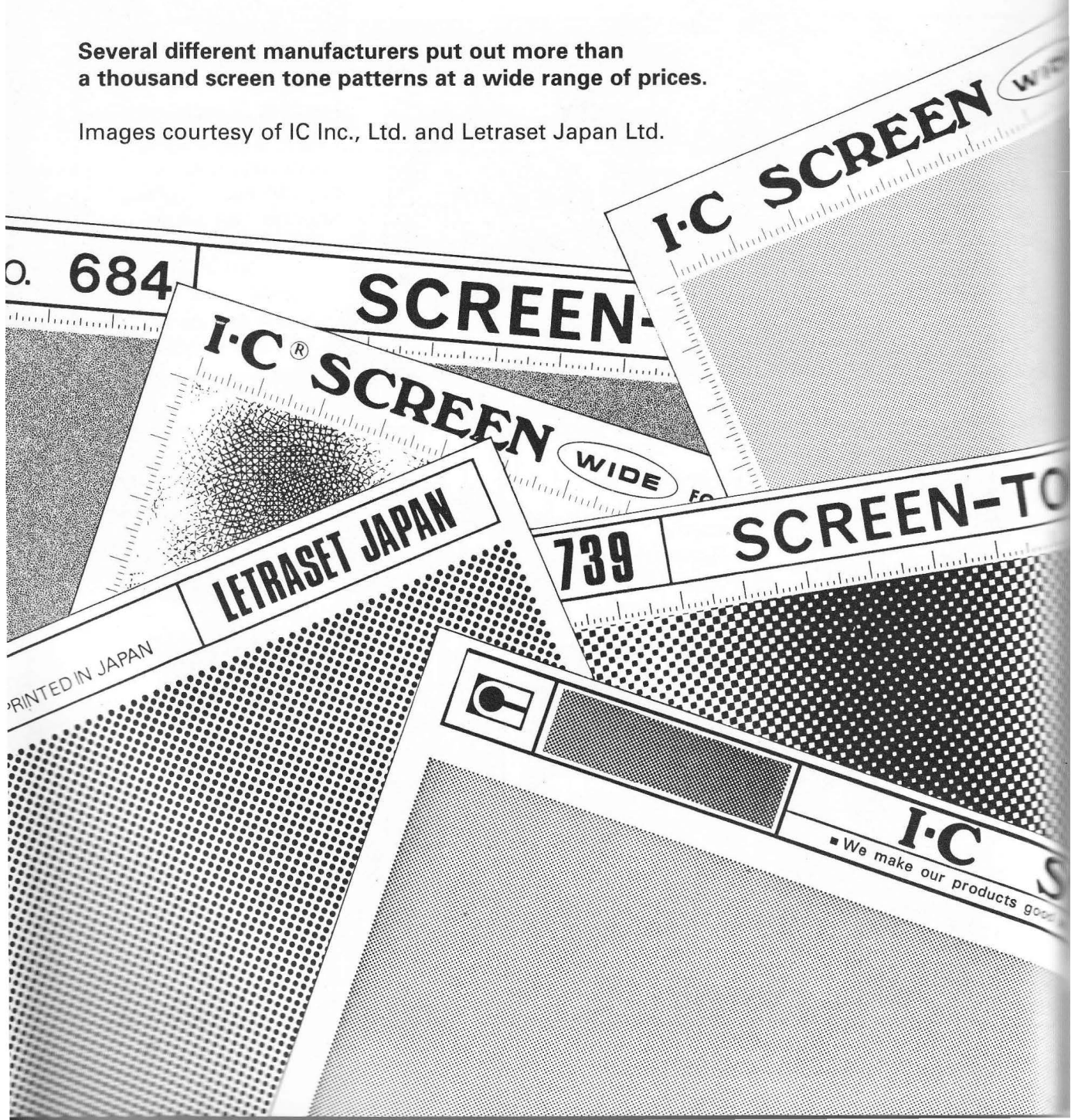






**Several different manufacturers put out more than a thousand screen tone patterns at a wide range of prices.**

Images courtesy of IC Inc., Ltd. and Letraset Japan Ltd.





On top of that, new patterns of screen tone appear each month. Recently, screen tones of pre-printed backgrounds have been appearing on the market to such the extent that artists are sometimes at a loss as to which to use.

This is because each company uses a different adhesive backing, has different prices, and uses different printing standards.

Your best bet would be to determine your standard tone (which screen tone you plan on using the majority of the time), purchase several brands of that screen tone, and use and compare the tones.

Um, excuse me, professor, but which do you recommend?

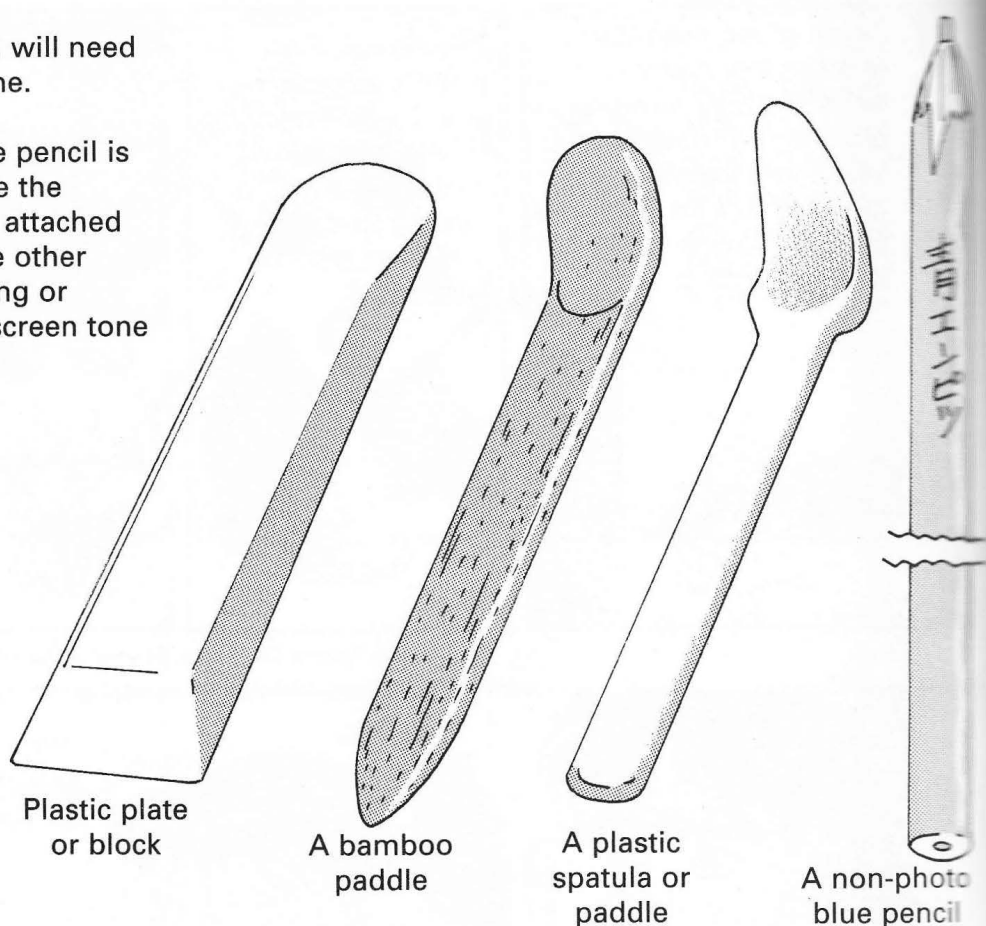
Preferences depend on the individual. Plus, there is also the question of price. Consequently, I really can't give you a definitive answer.

Hmm. Good question.

Ultimately, what you use depends on you.

There are tools you will need to attach screen tone.

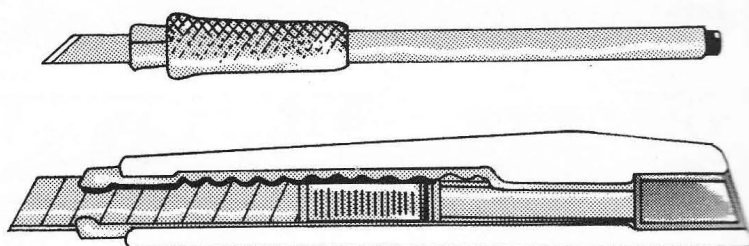
The non-photo blue pencil is used to mark where the screen tone will be attached to the drawing. The other tools are for pressing or holding down the screen tone sheet.



Plus, you will need craft knives for trimming and cutting the tone.

It doesn't matter which brand of craft knife you select, provided that the blade cuts adequately.

In addition to those shown here are many other types of craft knives. Select the one that best suits you.

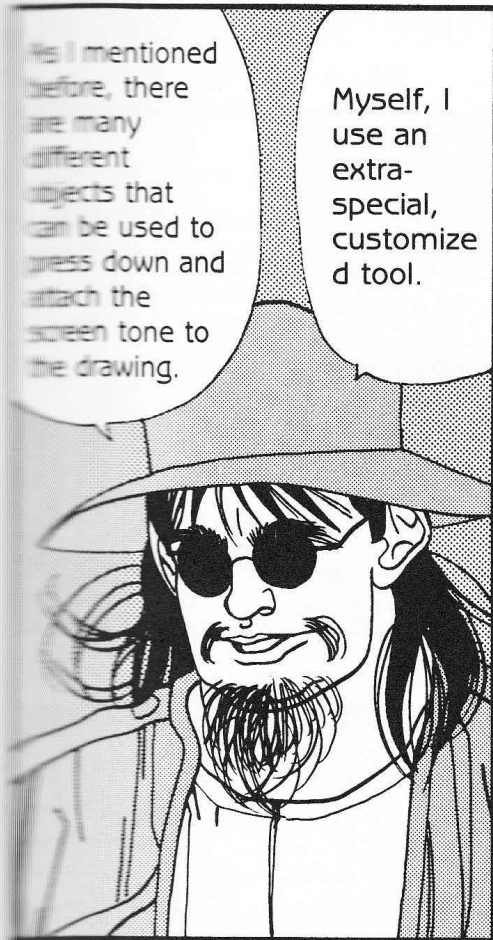


This is because if the blade is overly dull, you could find yourself pressing too hard on the knife to cut the screen tone, causing the blade to cut completely through to the drawing underneath.

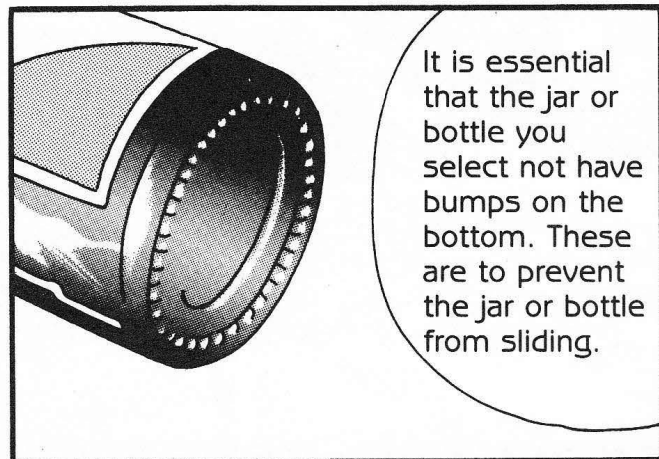
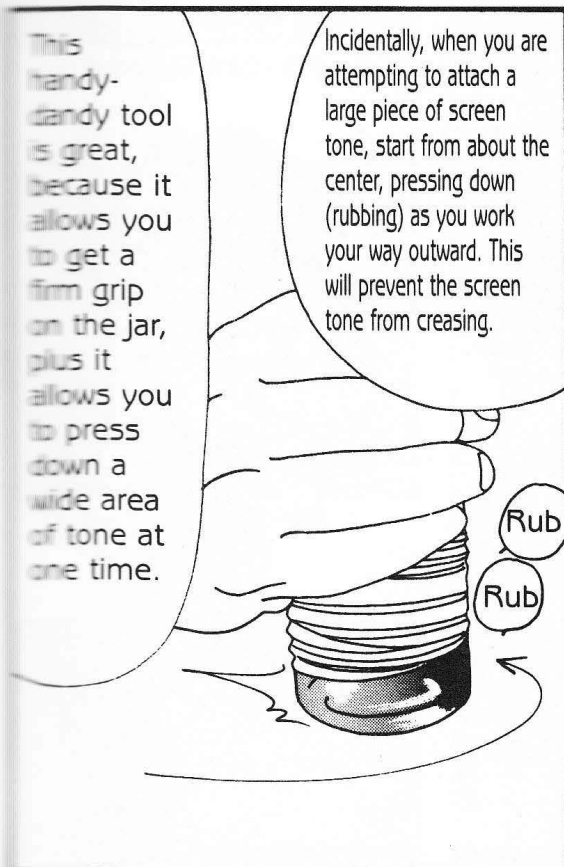
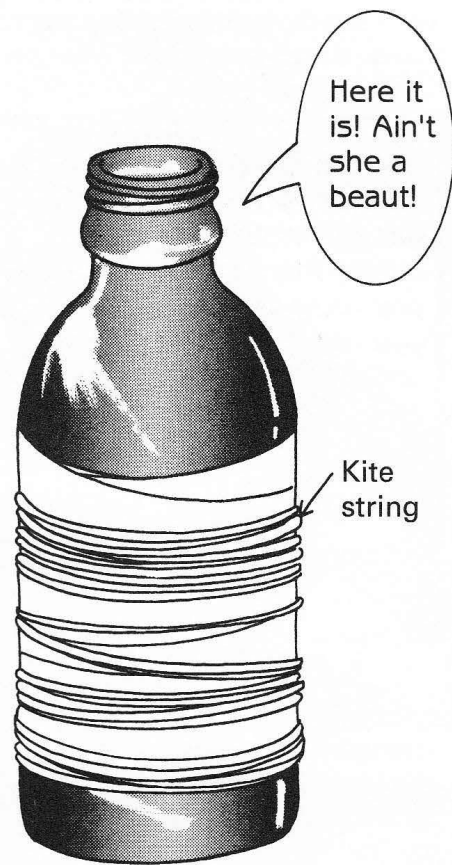
Original Draft

Furthermore, a sharp knife will allow you to do your tone work faster.

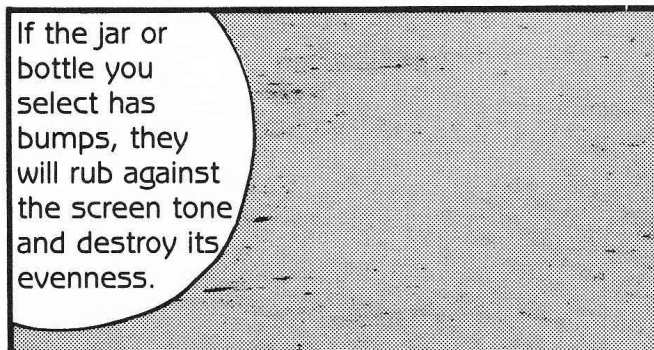
When using something to press down the screen tone, always lay an extra sheet of paper over the tone and then gently rub the object over the tone.



This is a vitamin drink bottle I wrapped in double-sided adhesive tape and then coiled kite string around that.



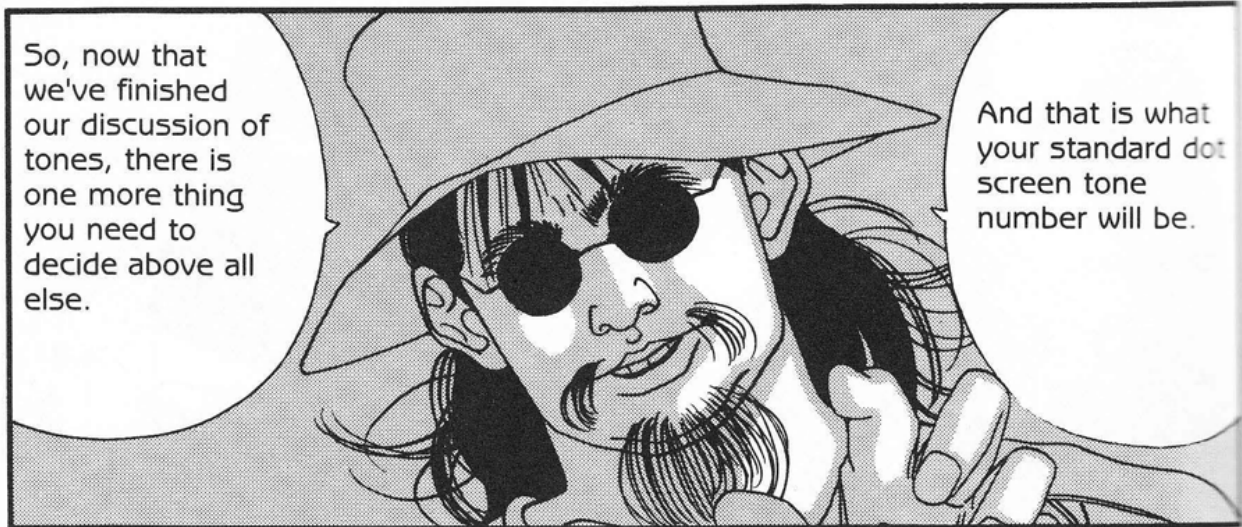
→ This is what will result-



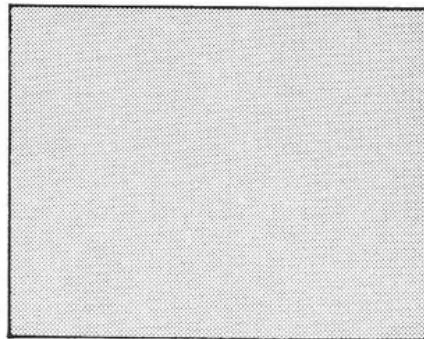
There really is no need to make a distinction like this. Use whatever you like to press down the tone. Provided that whatever you use will allow you to attach the tone without soiling or ruining it, anything is fine.



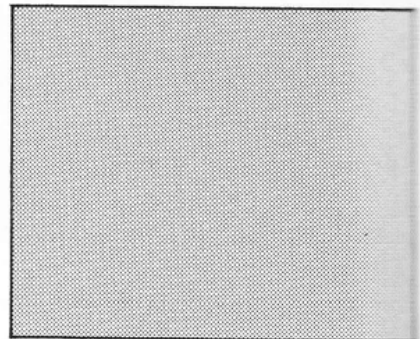
☆ The sizes of the dots printed on regular format and wide format screen tone sheets seem to differ, despite the screen tone sheets being of the same brand and identical specification numbers (i.e. the same number of dots per row and identical density), so make an effort to use screen tone sheets of the same format when layering.



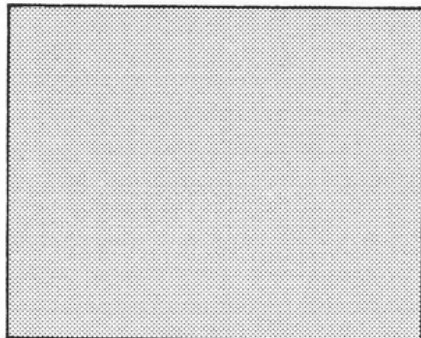
I surveyed my fellow manga artists, and the vast majority used one or more of the following 6 types.



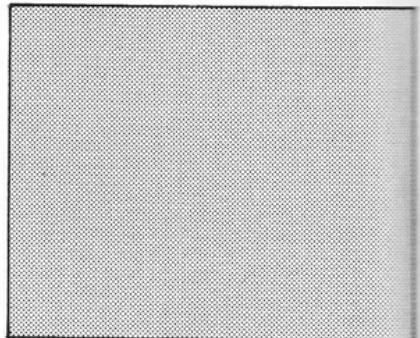
#51 (10% Density)



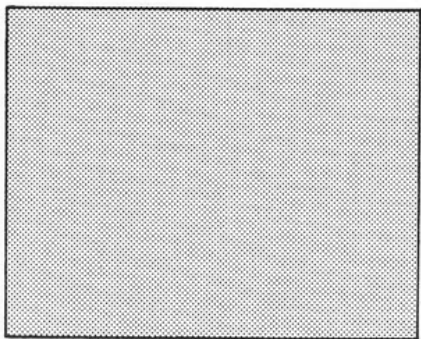
#52 (20% Density)



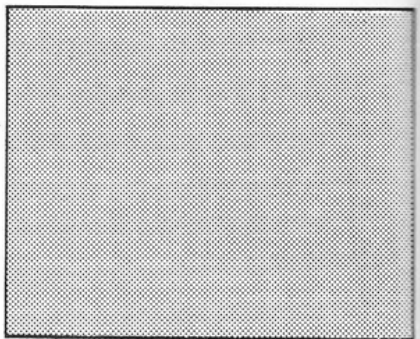
#61 (10% Density)



#62 (20% Density)



#71 (10% Density)



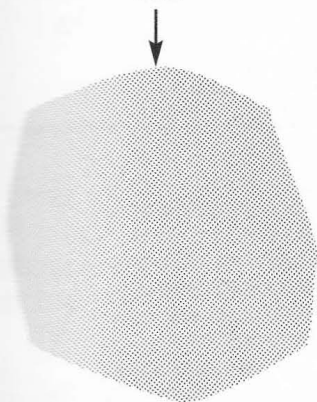
#72 (20% Density)

(Shown at actual size)

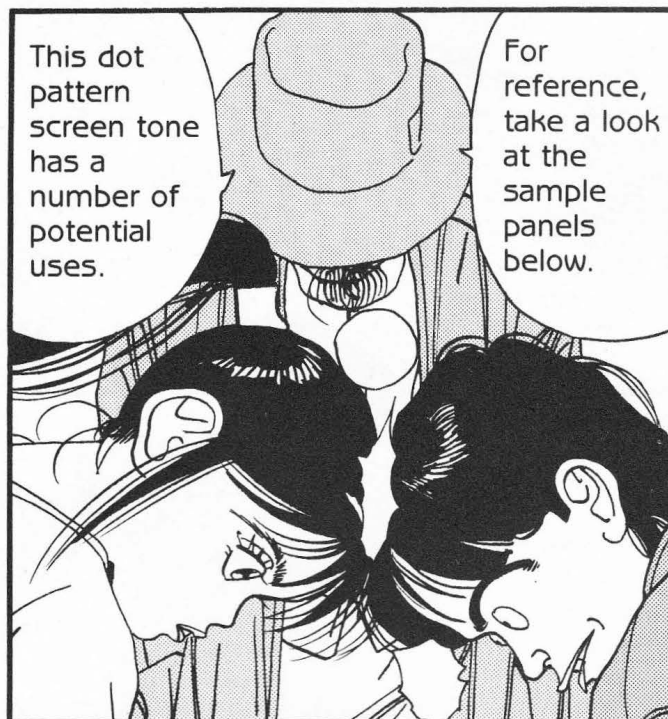
For our purposes here, let's use #62 tone, which is what I use as my standard screen tone.

This type of tone is generally known as a "dot" pattern.

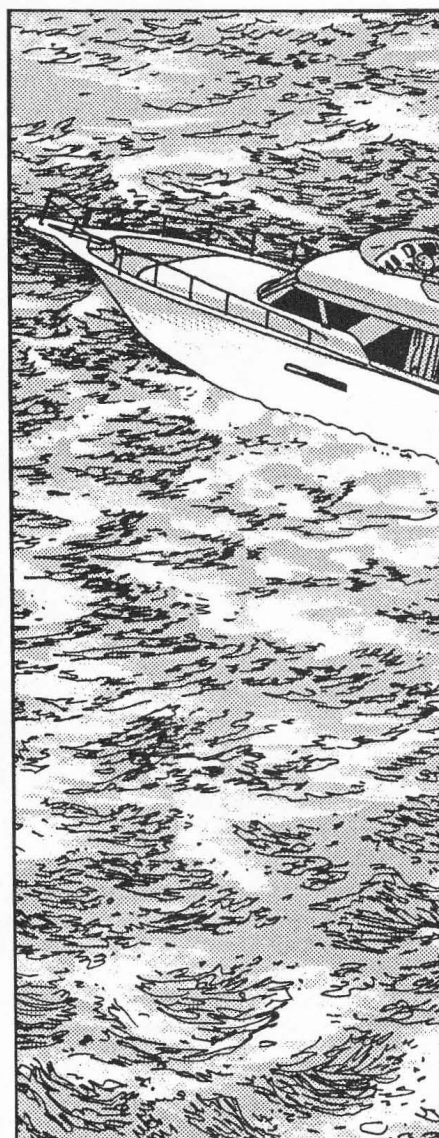
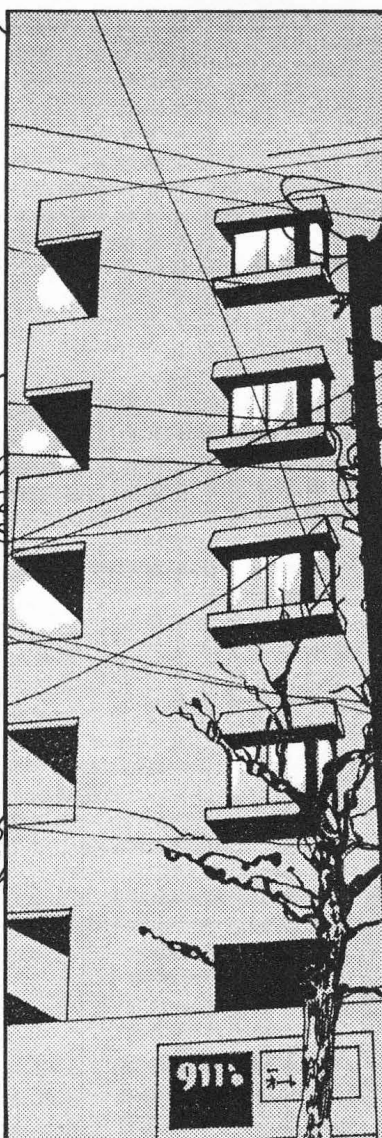
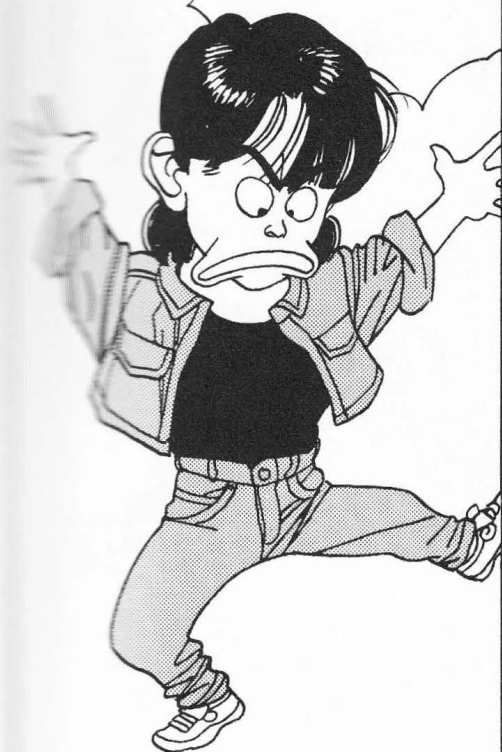
#62



(Shown at actual size)



Whoa, I just noticed that my clothes are all in dot screen tone!





☆ Screen tone is adhesive on the reverse side and comes attached to a non-stick paper backing.  
This paper backing is peeled off when affixing the screen tone.

So, dot screen tone is used for any number of purposes.



Take a look inside a few of those *manga* books sitting on the shelf next to you. Now you see why various artists use dot screen tone—because of its versatility.

Now let's go over how to attach tone.



**1** Match the tone with the paper backing still attached to the location on the drawing where it will be attached (in the above example, over the clothing).

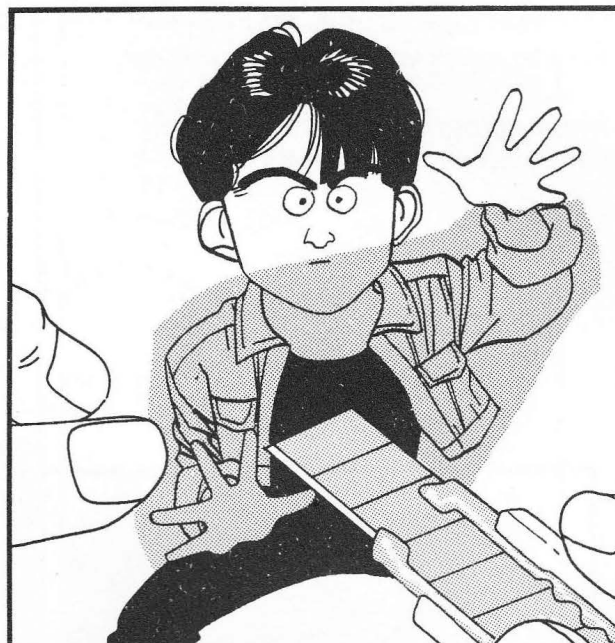


**2** Using a craft knife, cut only the screen tone on the paper backing slightly larger than the target area. Remove the paper backing and affix the tone to the drawing.





- 3** Use a glass rod or some other tool to press down and rub the tone lightly.



- 4** Using a craft knife, trim around the drawing. Be sure to use a sharp blade. (If you use a knife blade that is overly dull, you will ultimately press down too hard, causing the blade to cut through to the drawing, the tone to tear, or any number of undesirable hassles to occur.)



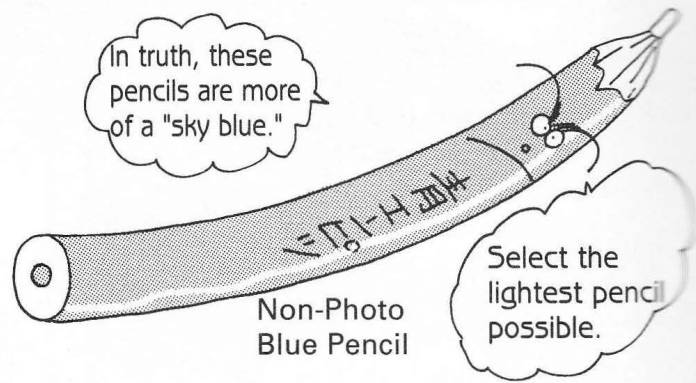
- 5** After having finished trimming around the drawing, slowly remove the excess tone, checking to make sure the periphery of the target area has been completely severed. Pulling off the excess tone too quickly may cause the target tone to tear.



- 6** After having removed the excess tone, carefully rub down the target tone to prevent it from coming off.

Our next topic is attaching screen tone to areas without contour lines.

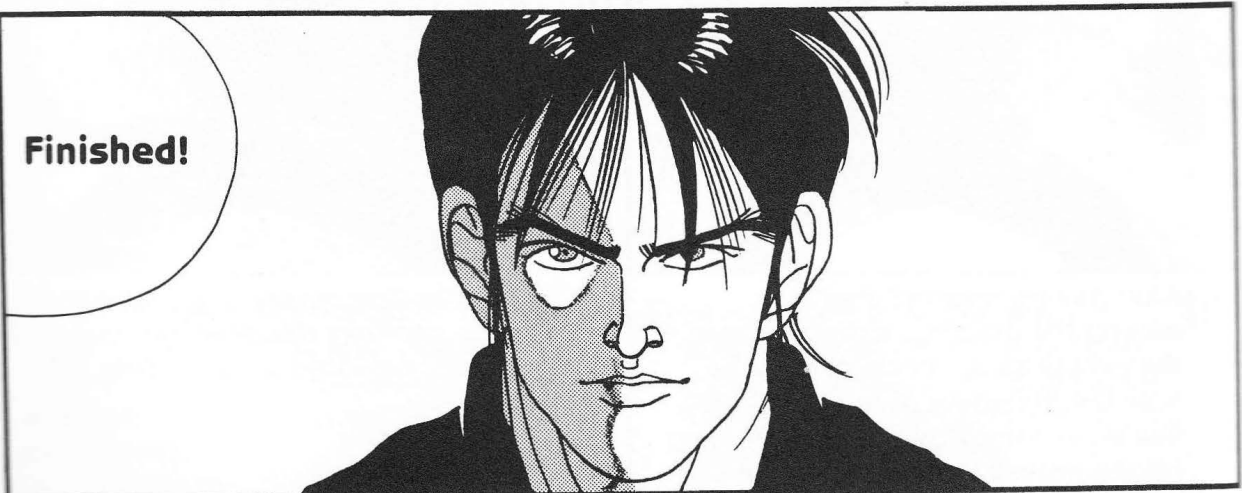
A non-photo blue pencil comes in handy on such occasions.



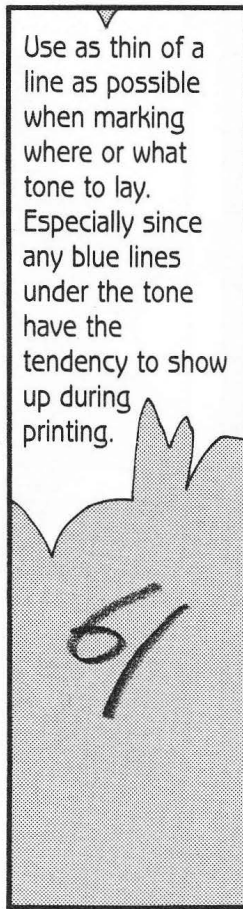
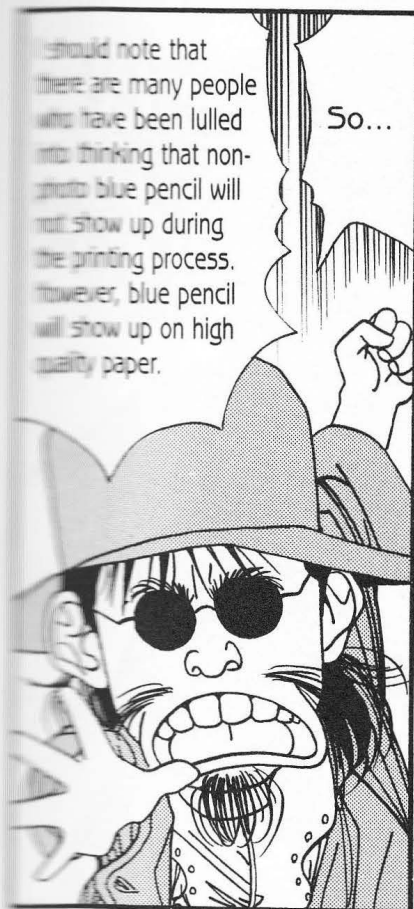
**1** Using the non-photo blue pencil, lightly draw in those areas of the face where shadow is to be added.



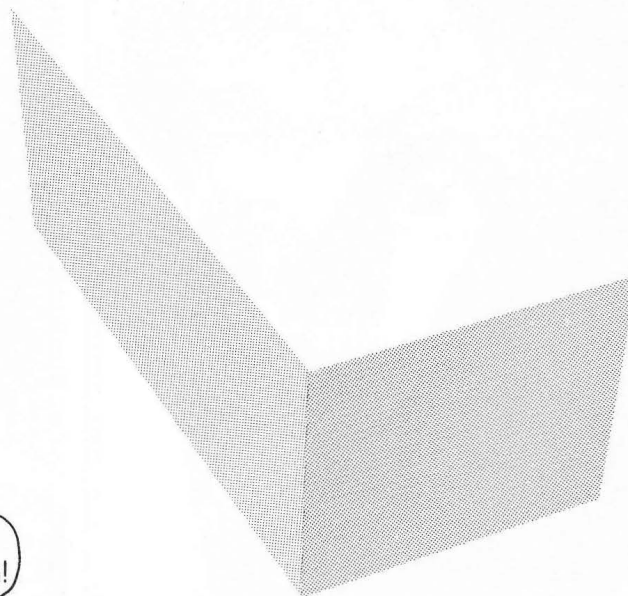
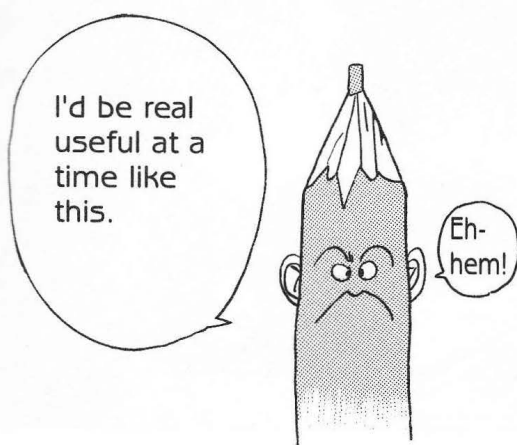
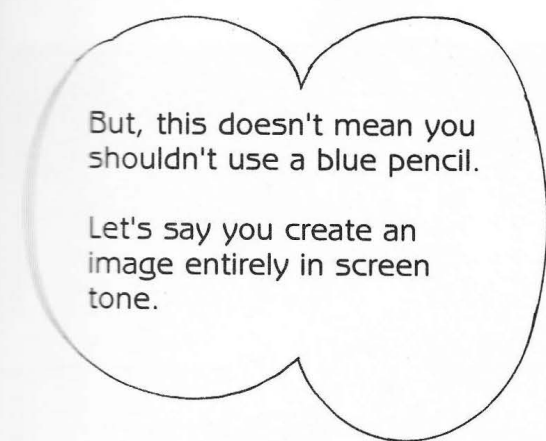
**2** Attach the screen tone as described on the preceding page and trim the tone along the lines drawn in blue.



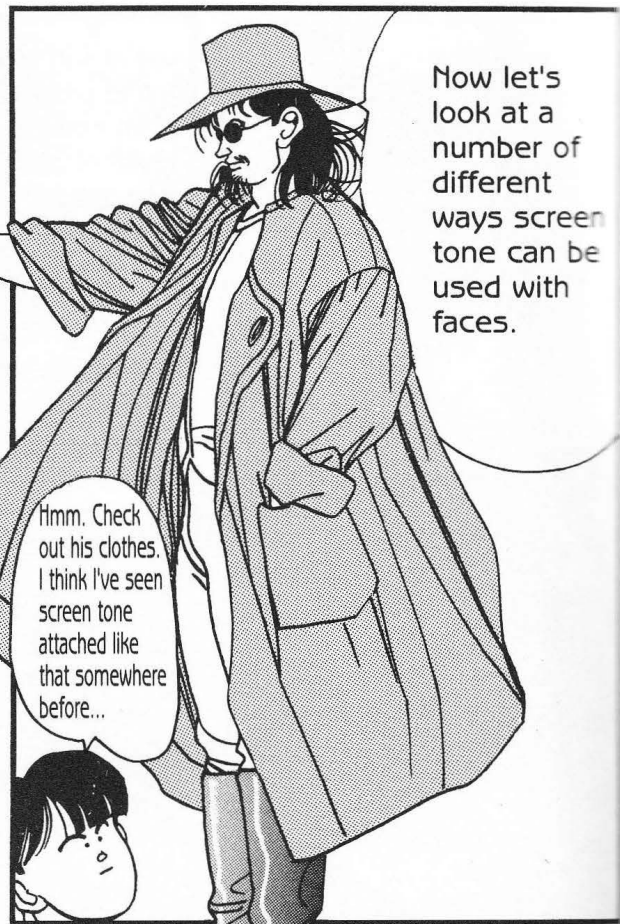
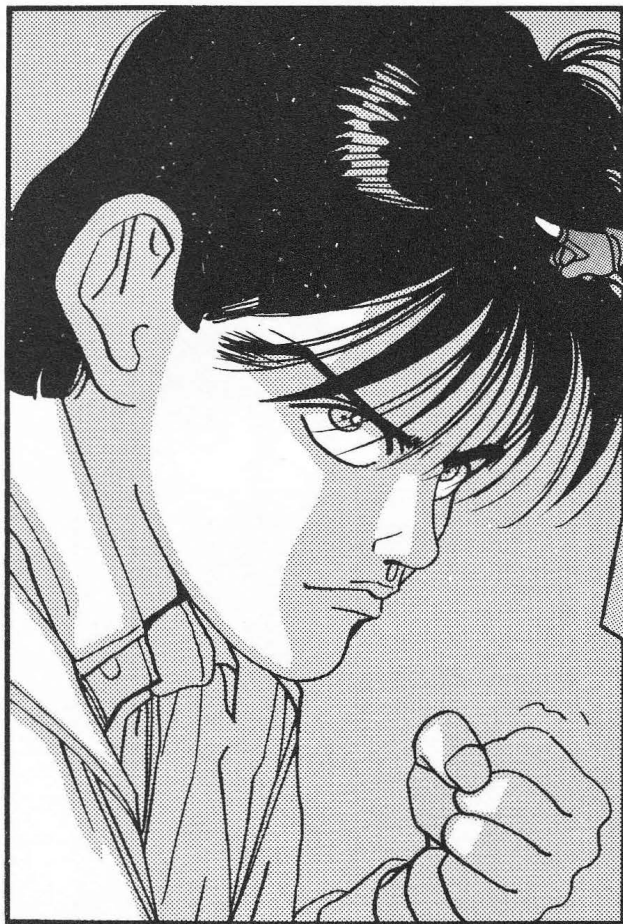
☆ Carefully erase any remaining penciled lines after having inked the drawing. Failing to do so will cause the lines to turn up during the printing process after you have covered them with screen tone.



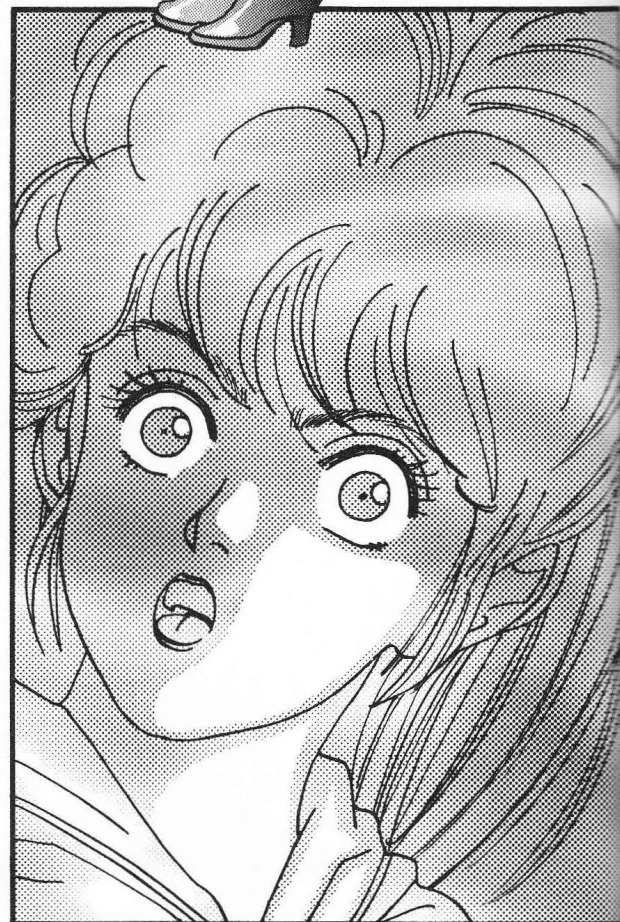
☆ Those who are worried about using a blue pencil may use a sky blue pencil instead.

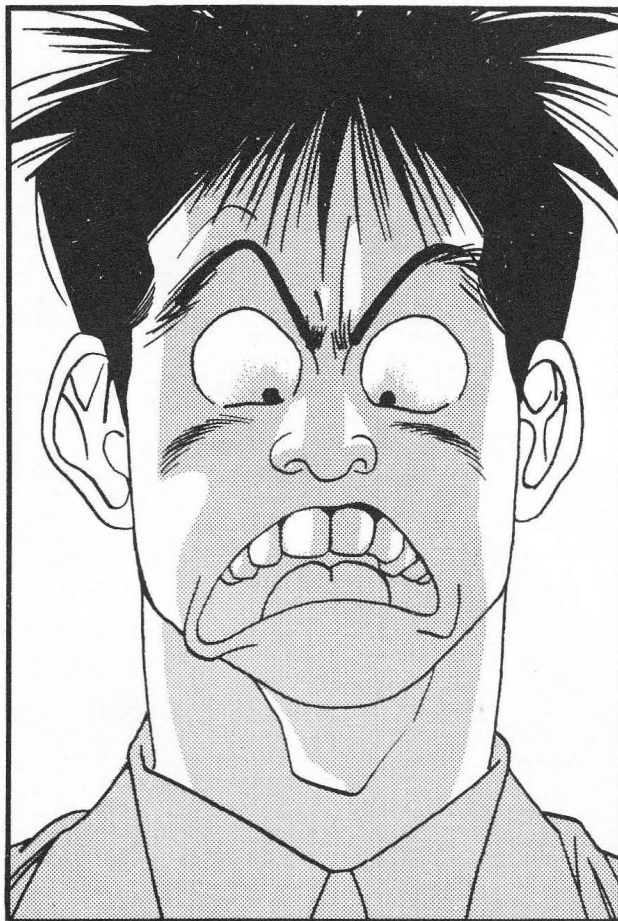
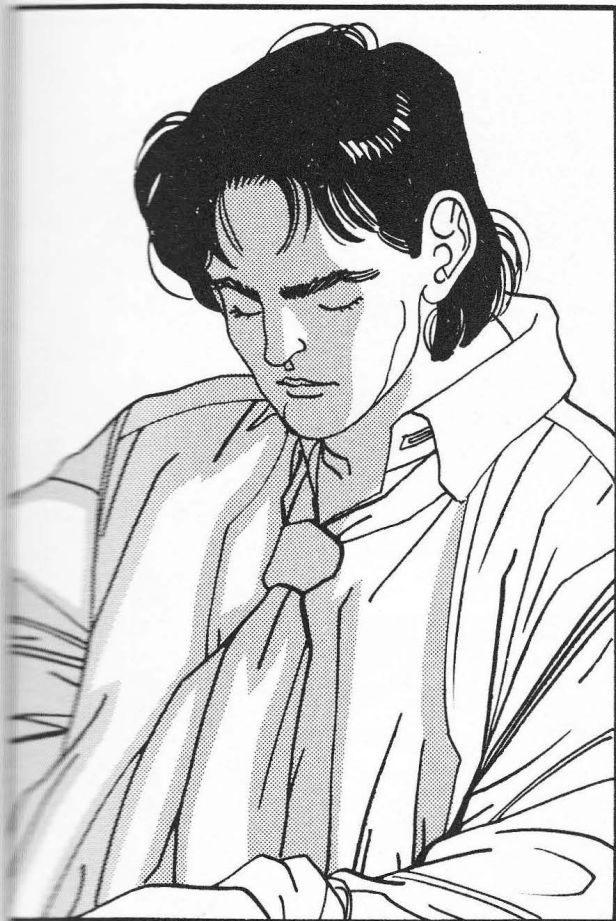






Hmm. Check out his clothes. I think I've seen screen tone attached like that somewhere before...



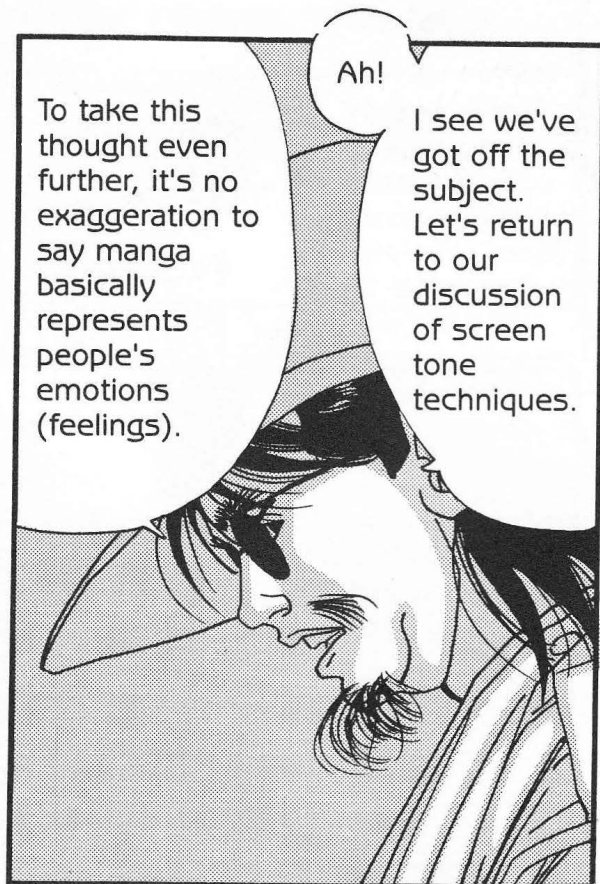
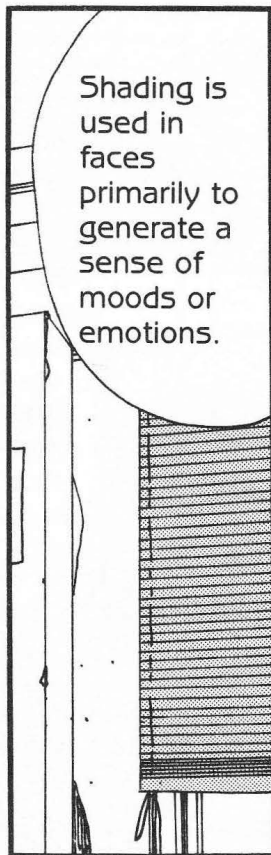
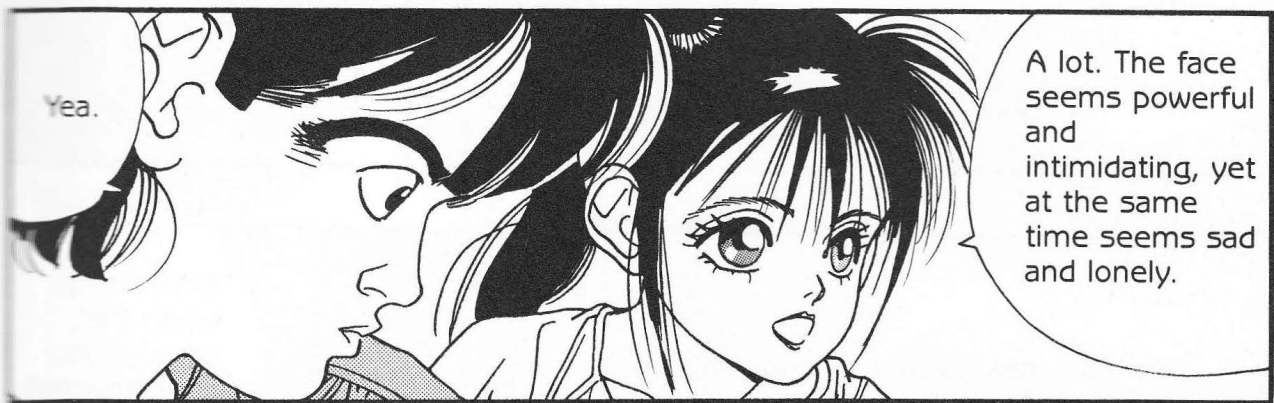


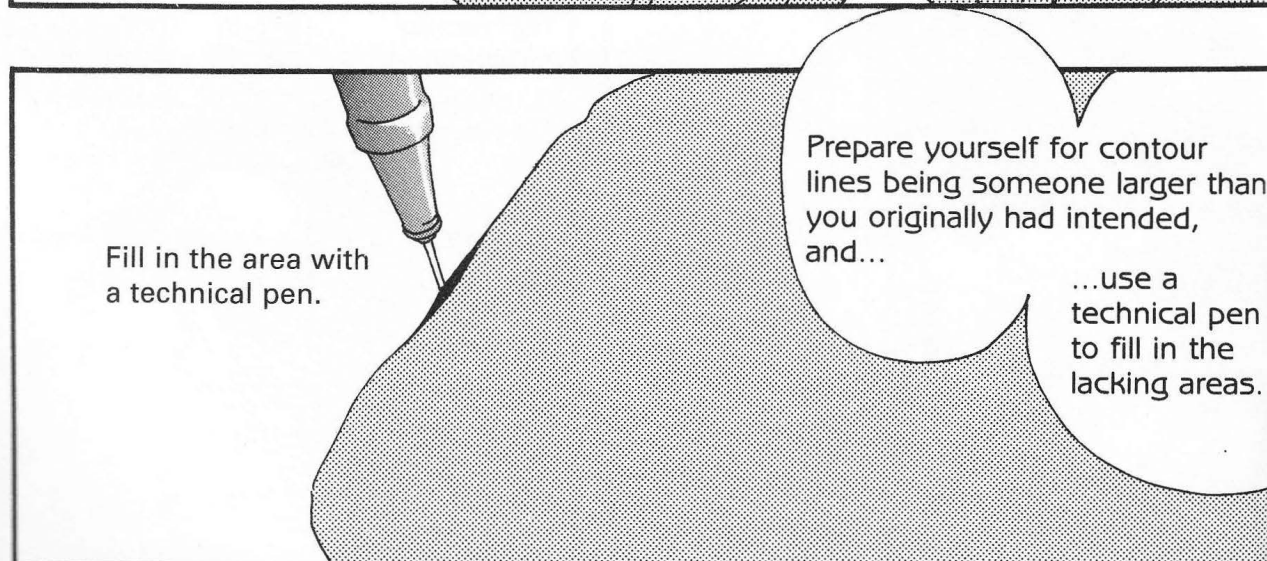
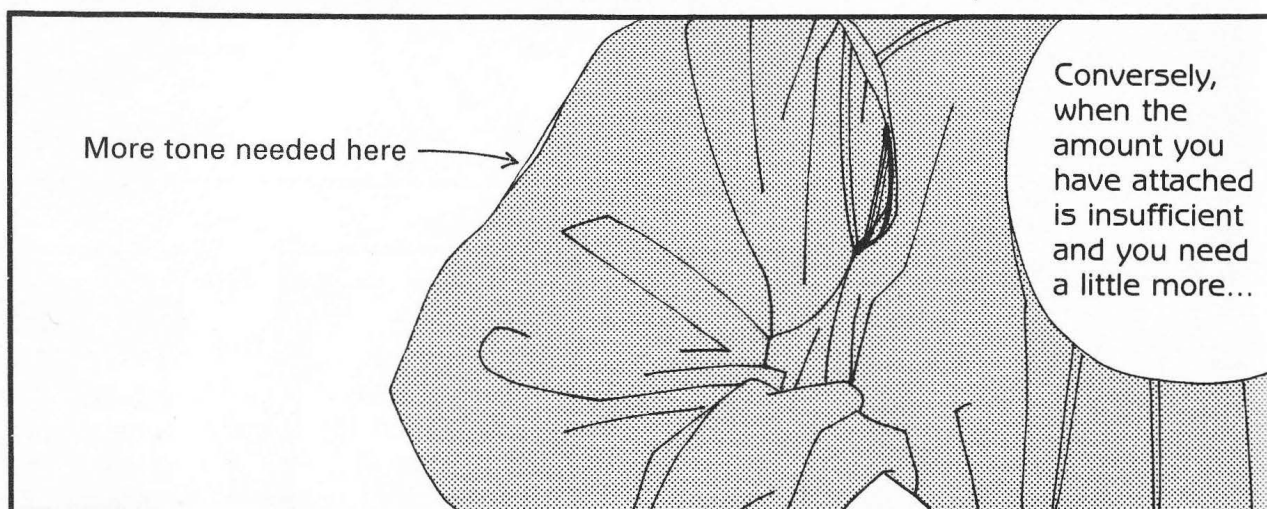
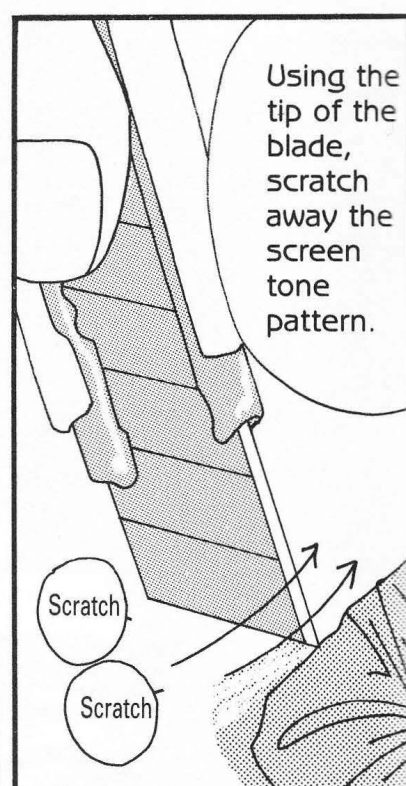
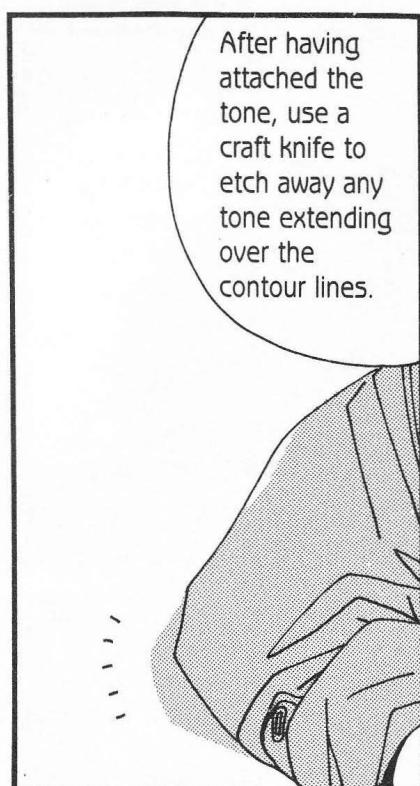




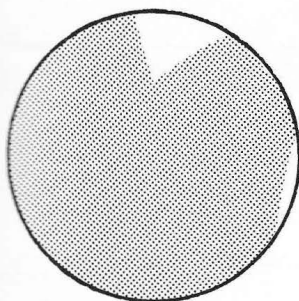
I created this by attaching a sheet of IC32 and then etching the tone to give the face a sense of volume. I selected IC32, because 62 would have made the face appear too heavy. IC429 was used for the irises.



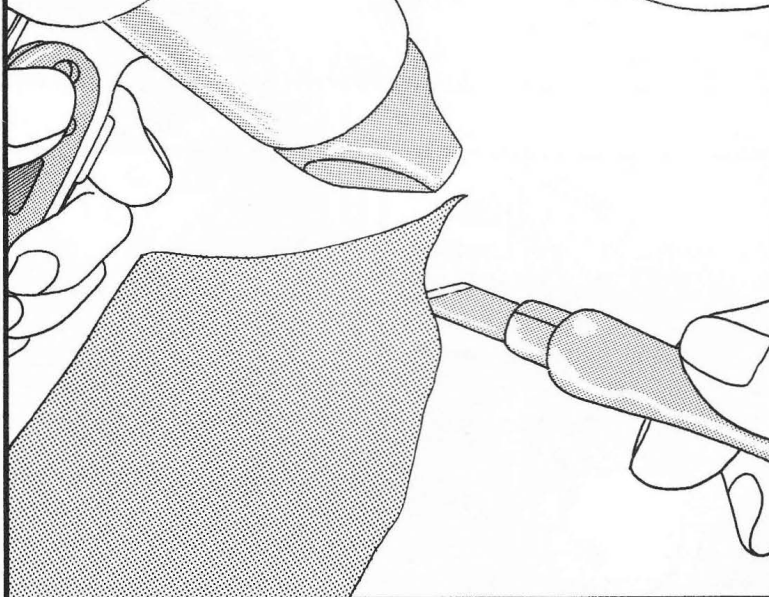




If you have missed a large target area when you laid down the tone or if you have laid down the tone incorrectly, you'll have no choice but to peel off the tone and attach it once again.



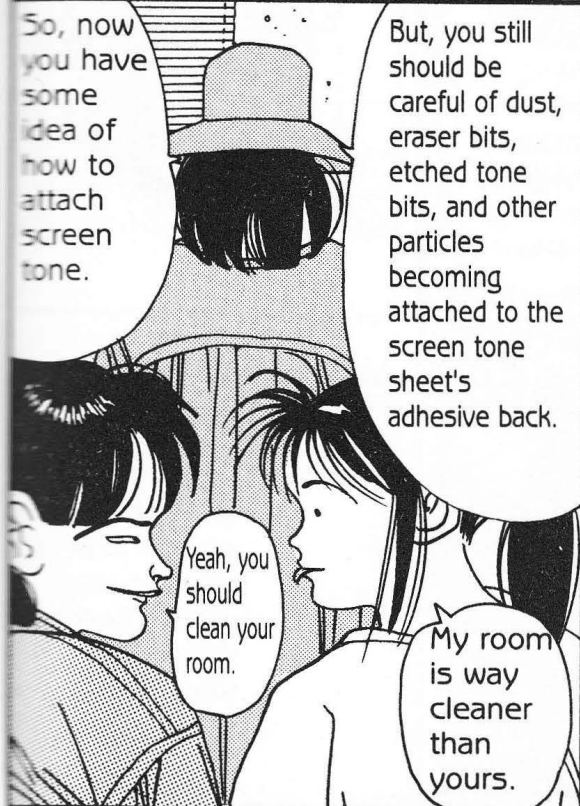
A neat trick is to warm up the tone with a dryer. This makes it easier to remove.



If it is a small piece of tone, the heat from a lit cigarette may work instead, but be very careful not to burn the drawing.

The sale of tobacco products to minors is illegal. It has been determined that cigarette smoking is hazardous to your health.

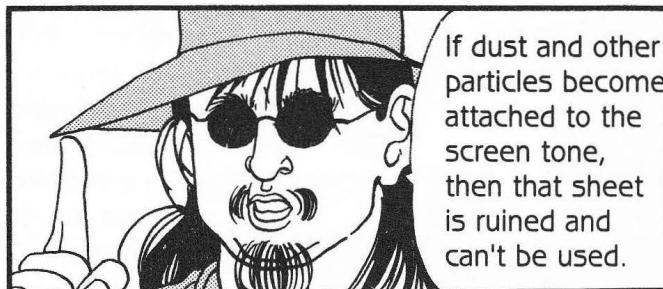
So, now you have some idea of how to attach screen tone.



But, you still should be careful of dust, eraser bits, etched tone bits, and other particles becoming attached to the screen tone sheet's adhesive back.

Yeah, you should clean your room.

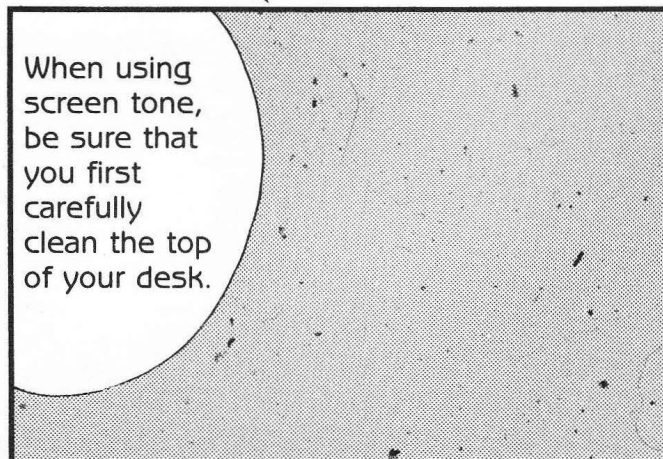
My room is way cleaner than yours.



If dust and other particles become attached to the screen tone, then that sheet is ruined and can't be used.

This is what will happen!

When using screen tone, be sure that you first carefully clean the top of your desk.

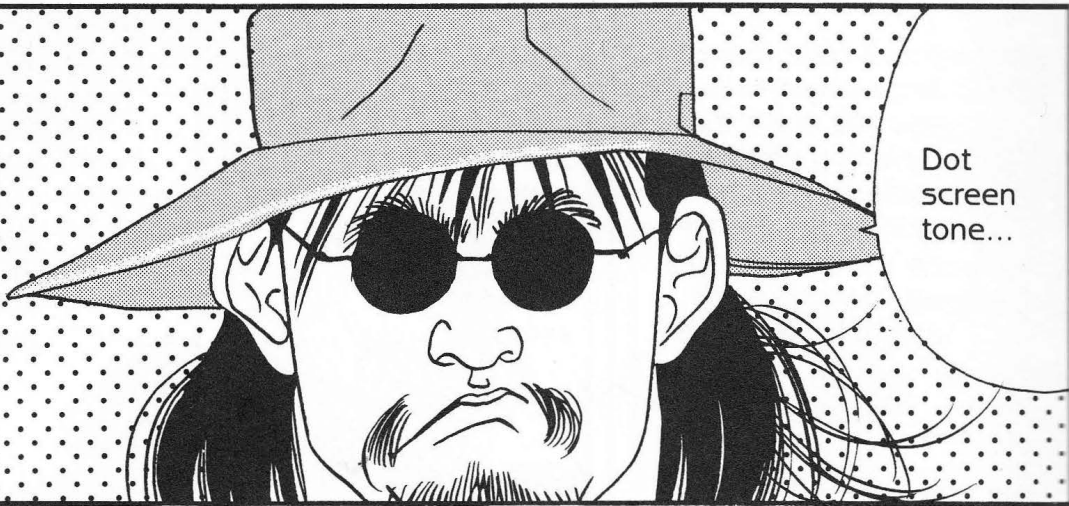


While most tone is adhesive on the reverse side, there may be spots missing pattern where a mistake occurred in printing. In such cases, simply reattach tone to the area missing the print.

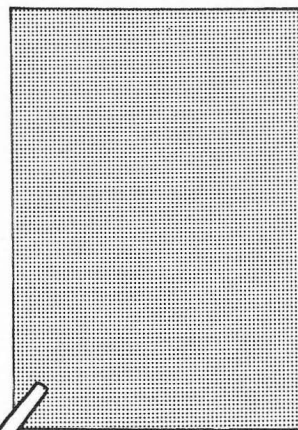


Our next topic are peculiar traits of dot screen tone.

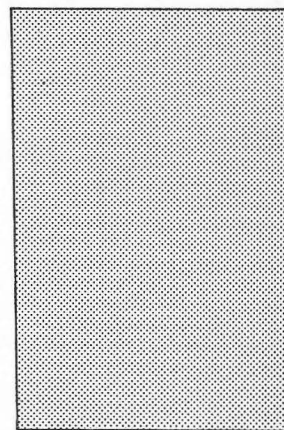
Dot screen tone...



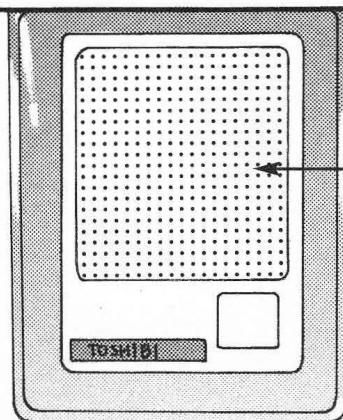
Hmm. Looking at it like this, it doesn't quite seem aligned, does it?



Shifting the direction of the screen tone slightly allows the dots to align horizontally or vertically

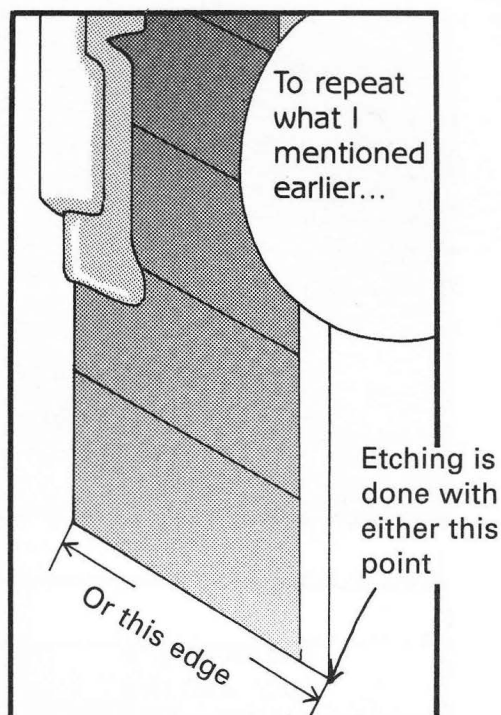
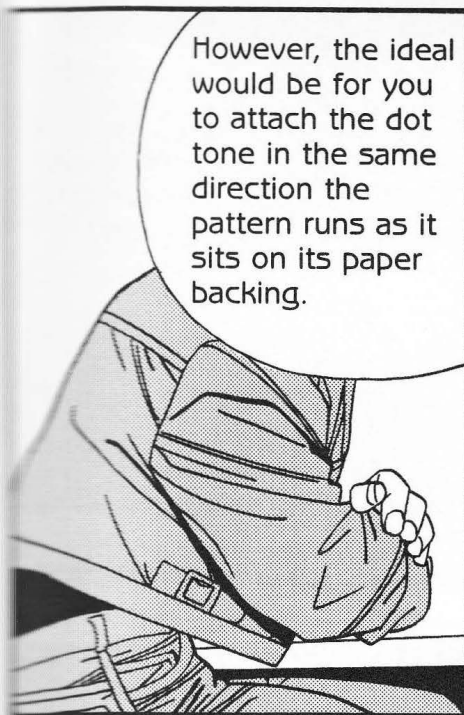


The screen tone as it appears on its paper backing

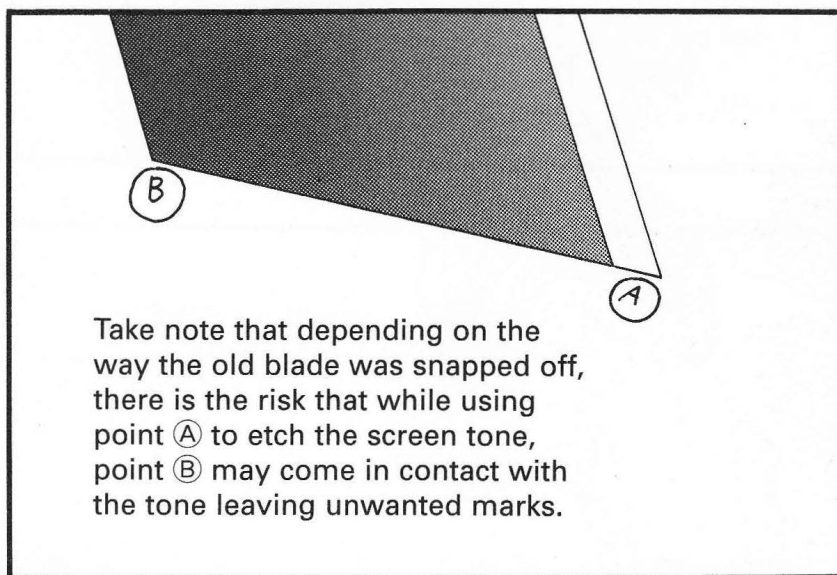
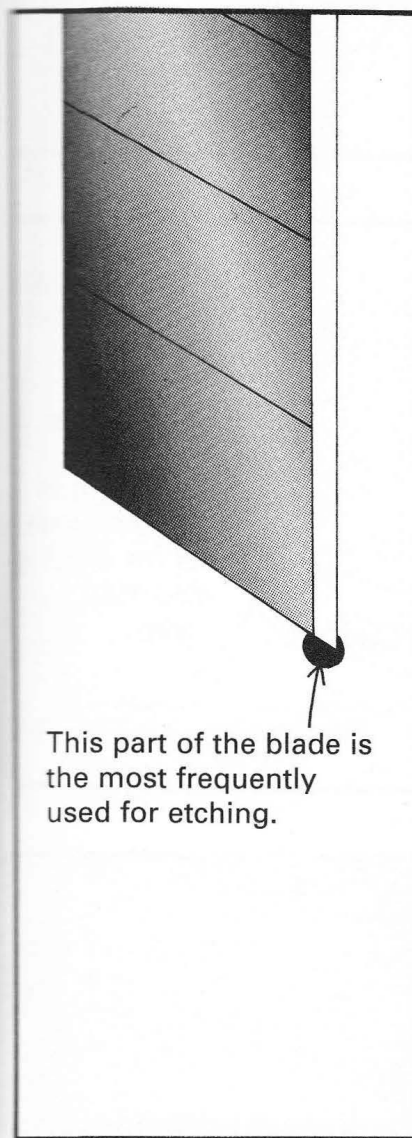


Like this.  
IC101

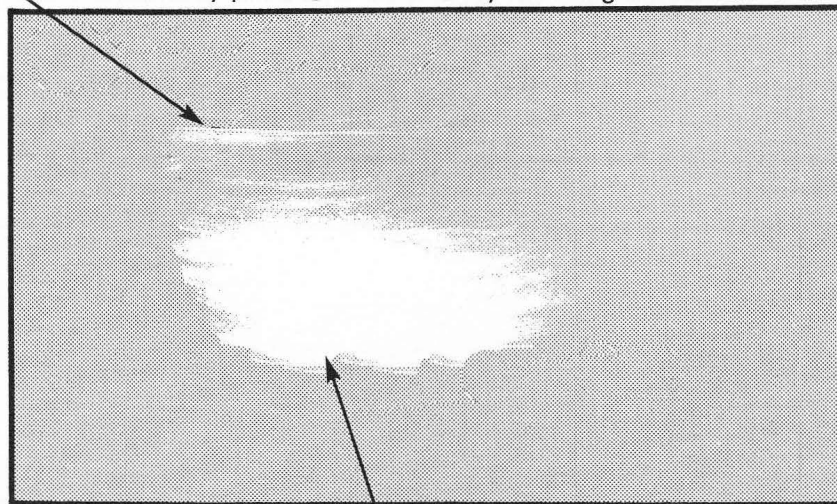
Conversely, there are ways at your disposal to put the flat, aligned aspect to good use when attaching the screen tone.

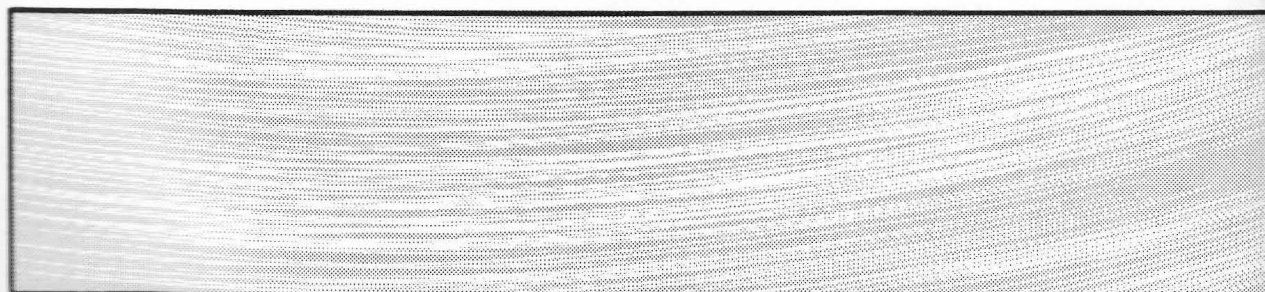
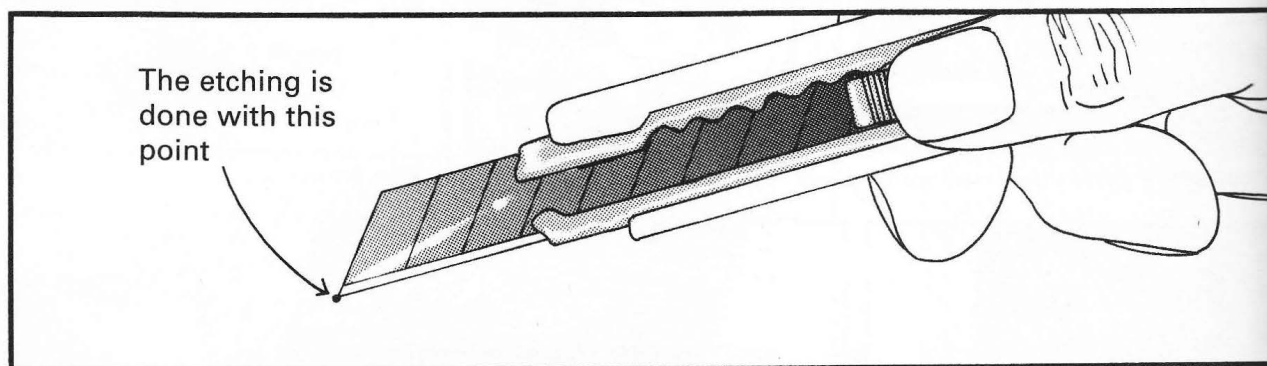
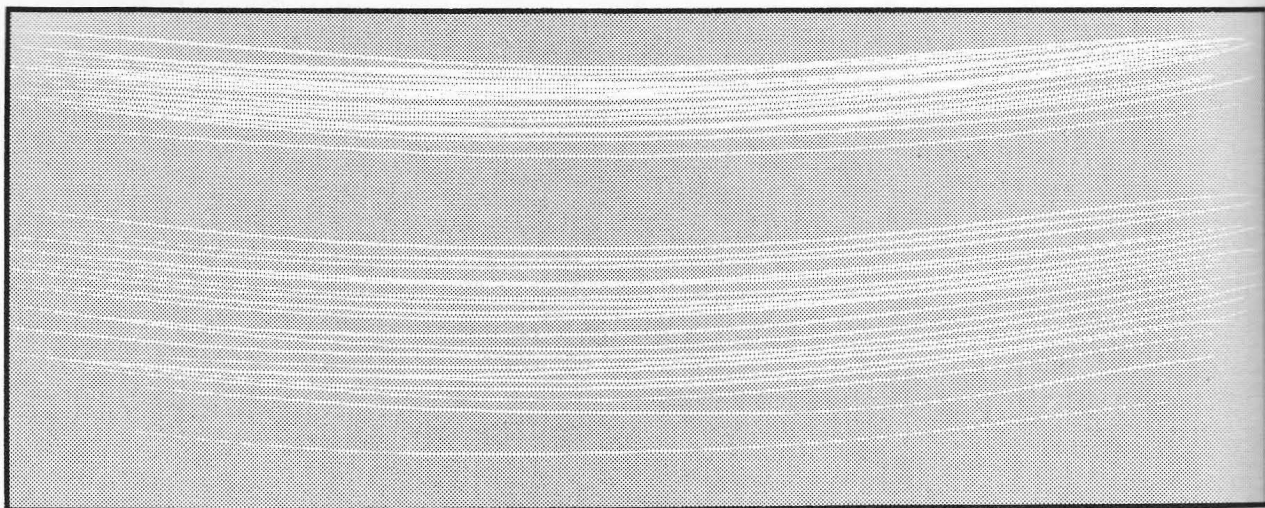


Frequently replace your craft knife's blade. It is vital that your knife blade always remain sharp.



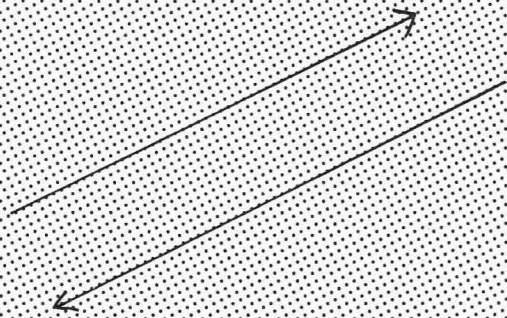
Marks created by point B inadvertently touching the screen tone.





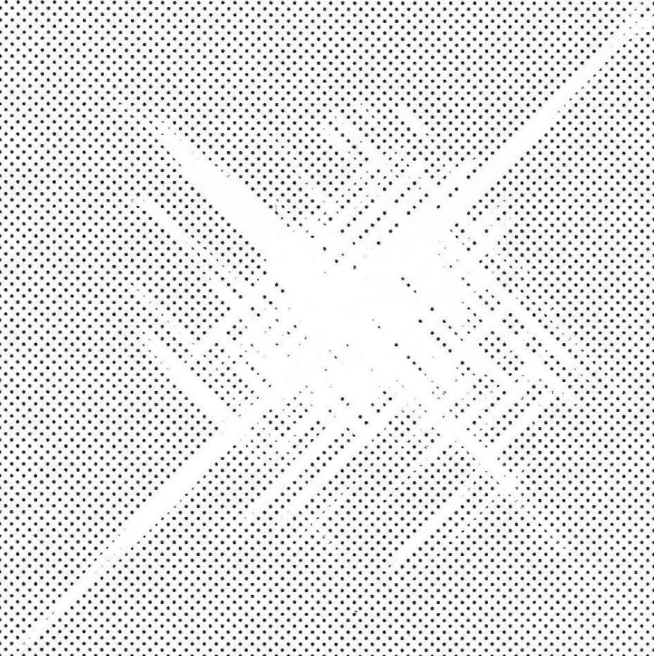


When etching,  
there is one  
thing you  
should avoid.

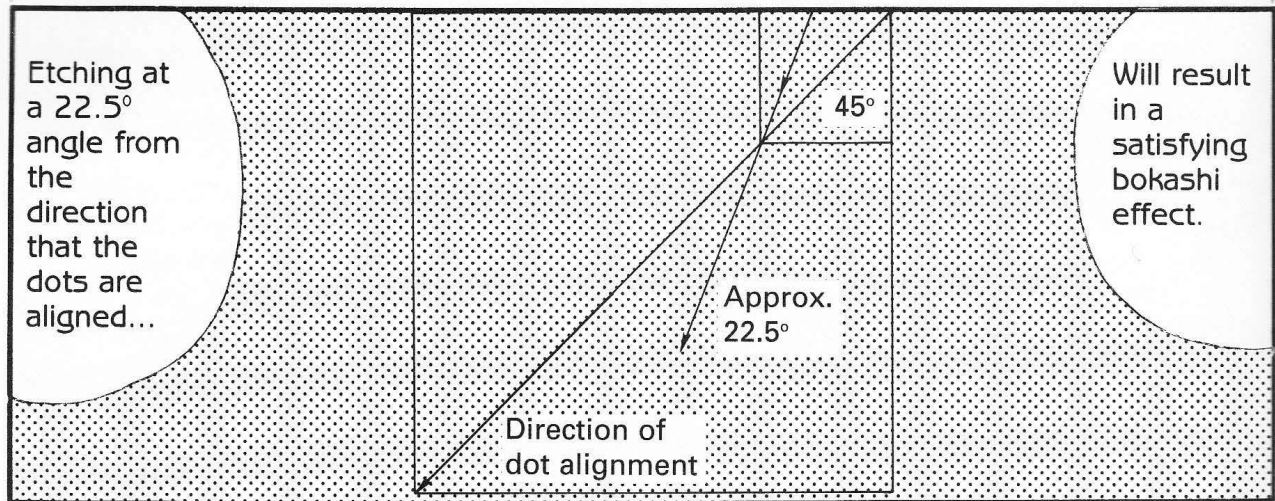


By all means,  
don't etch  
along the same  
directions  
that the dots  
are aligned.

If you do, this  
will be the  
result.

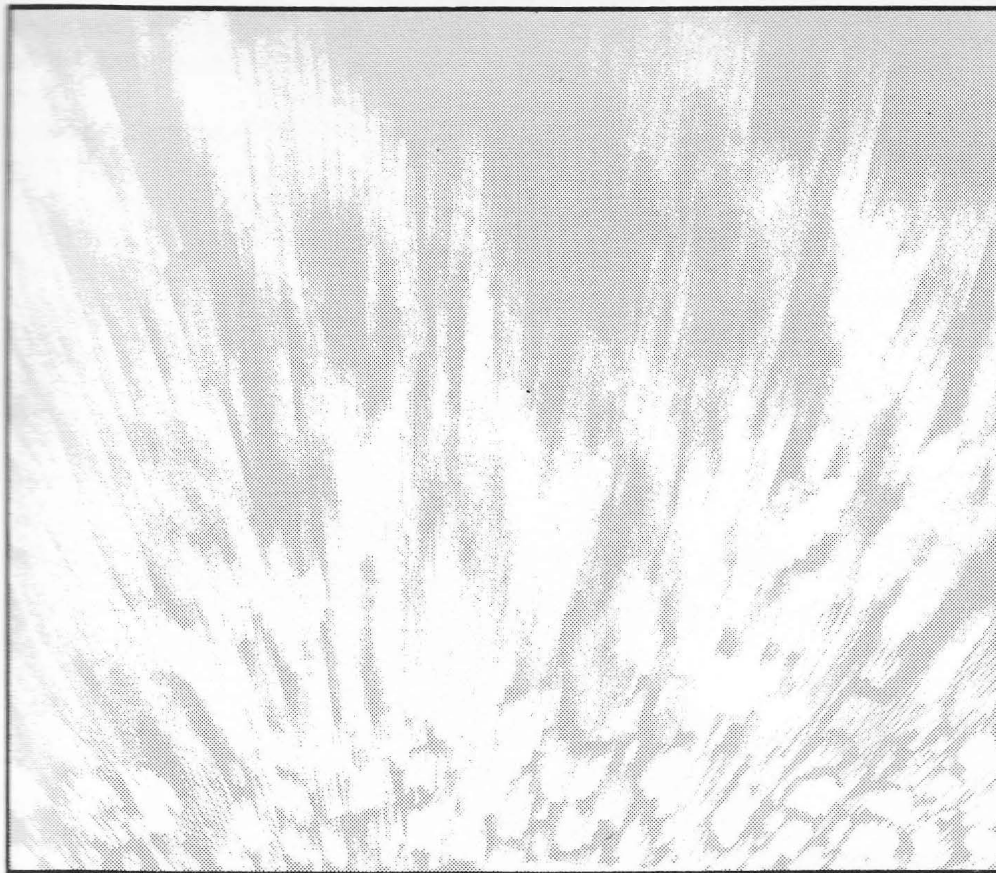


**A** Etch the tone in parallel, even (equidistant) strokes. Proceed at a careful, slow pace when etching. Don't rush. *Bokashi* (blurring) effects particularly require that you take your time.





Create this image by drawing in pencil on an IC62 sheet of screen tone while looking at a photograph of clouds. The tone is then etched along the penciled lines.



**A sand eraser and sandpaper may also be used to create bokashi effects.**

To duplicate this image, first draw in the rocks. Next, attach IC62 tone over the entire drawing surface and etch the whitecaps using a craft knife. Render the white foam of the waves breaking over the rocks in white poster paint, etc.



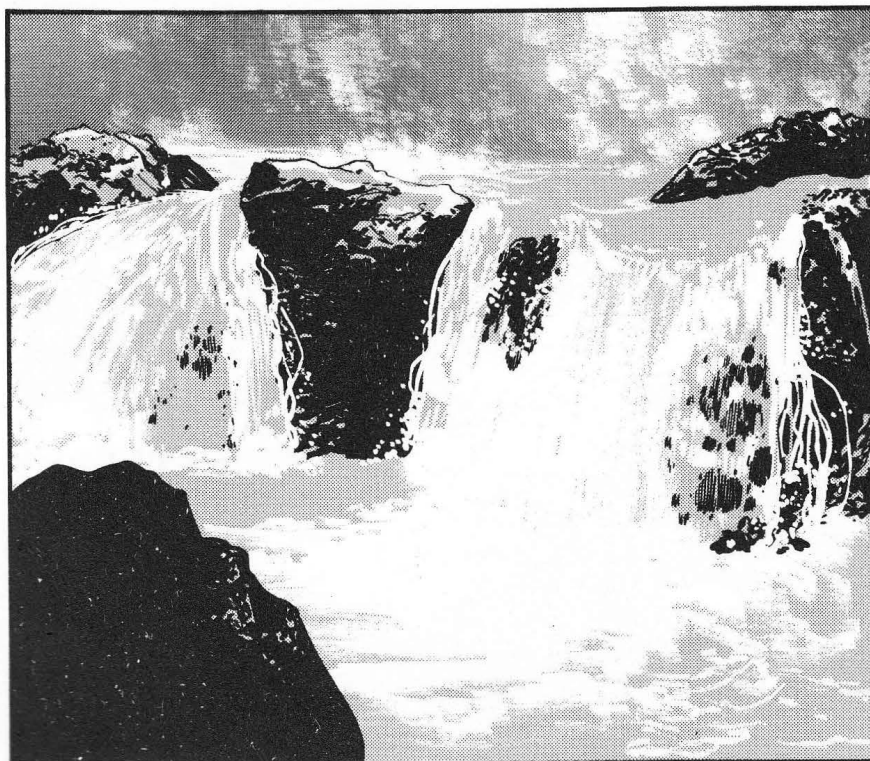


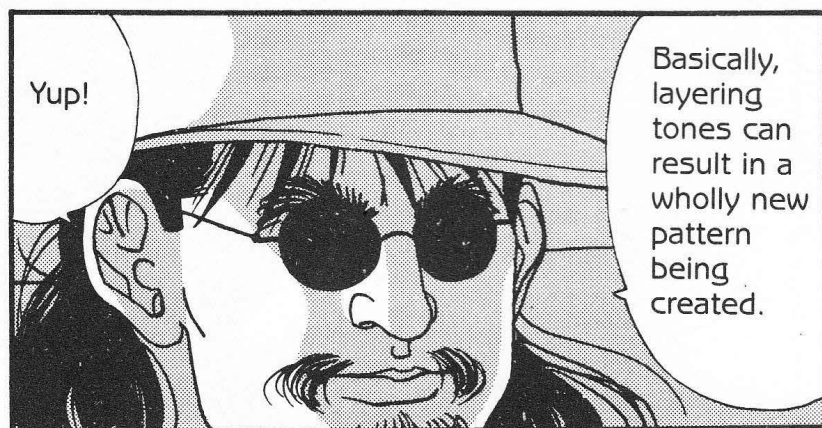
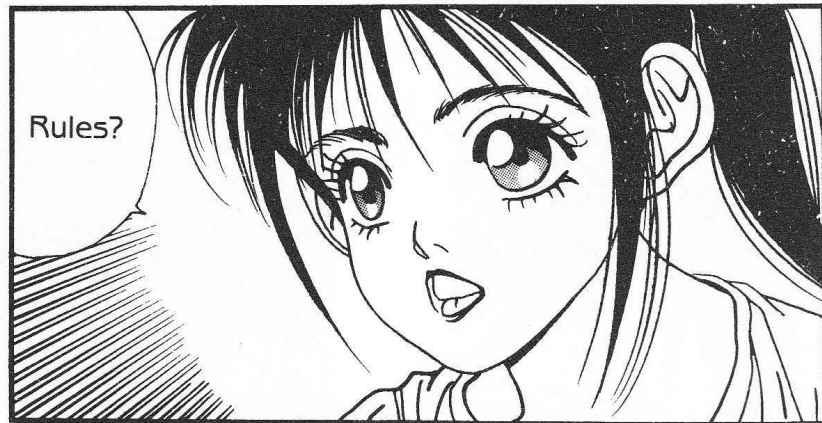
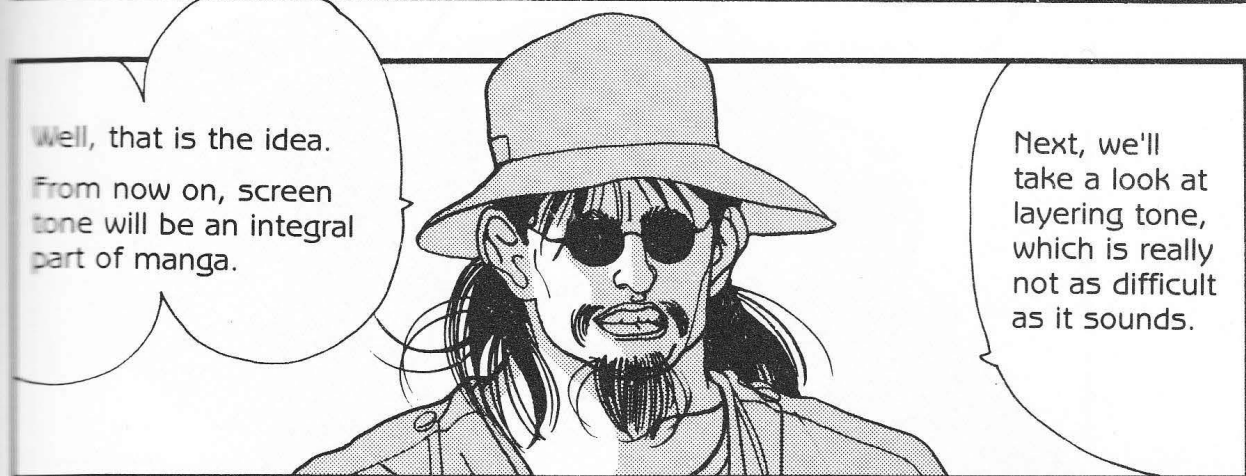
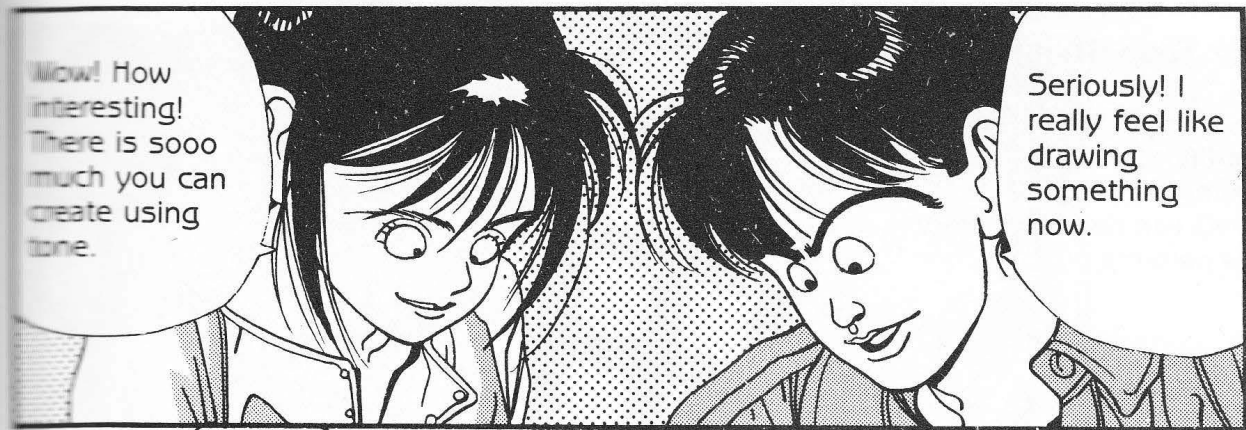
**For some reason, images rendered solely in tone (without drawn lines) are usually nature scenes.**

Create this image by first drawing the silhouettes of the trees and land formation. Next, cover the entire drawing with IC62 tone. Add more 62 tone over the first, layering the tone to suggest the faded, distant islands. Etch the evening or morning sun and then etch the tone to suggest the water with light reflected on its surface.



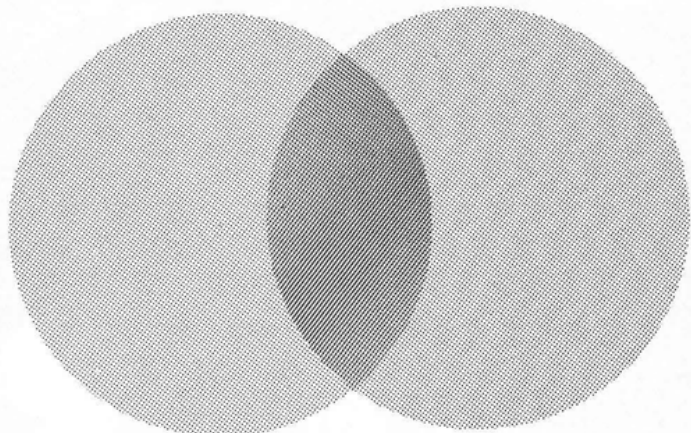
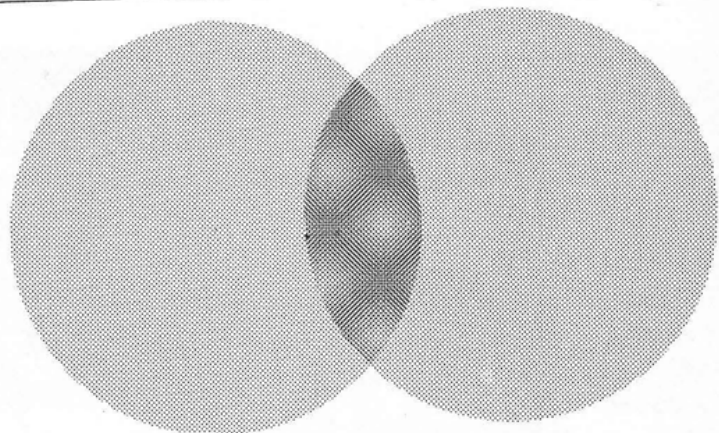
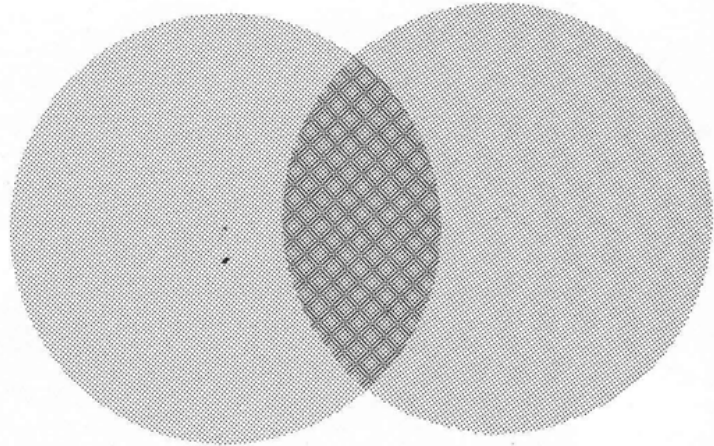
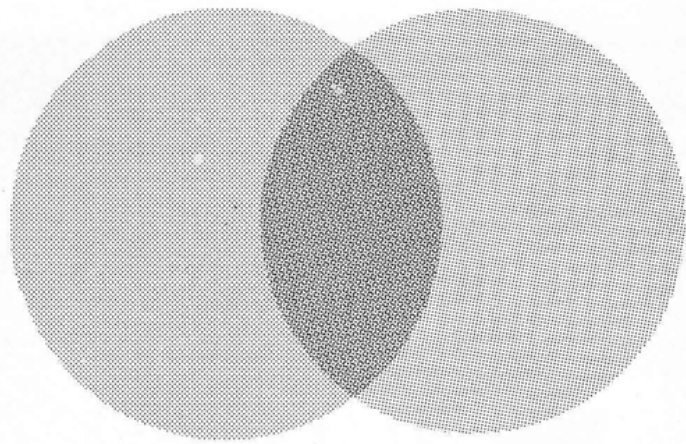
**When etching tone, take care to make sure the tone has been pressed down firmly. If the tone has been only lightly pressed, the tone may tear when large areas are being etched.** For this, start by drawing the rocks. Next, cover the entire composition with IC62. Etch the flowing water. Add a second layer of tone over the first (layer the tone) to render the distant background and etch. Finally, render the water flowing over the rocks using white poster paint, etc.






## IC62 Tone Sheets

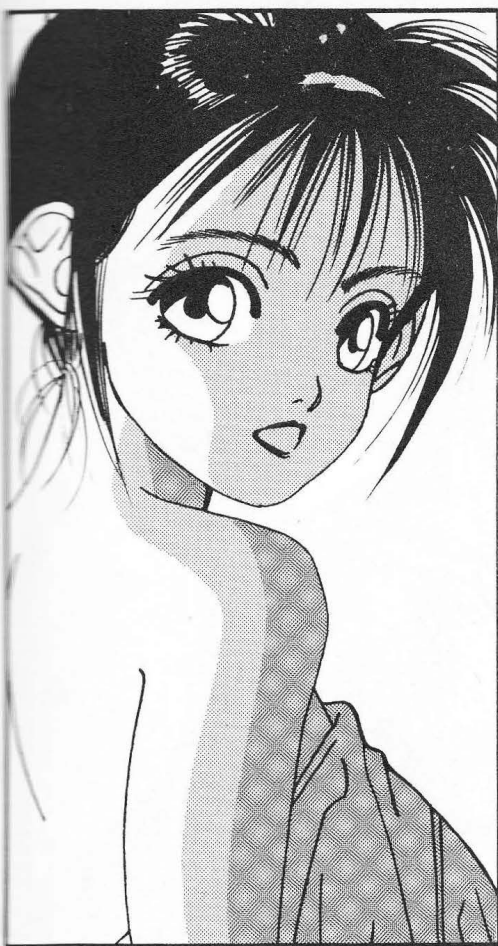
Overlaying 2 sheets of IC62 and shifting the directions of the sheets can result in different, new patterns.



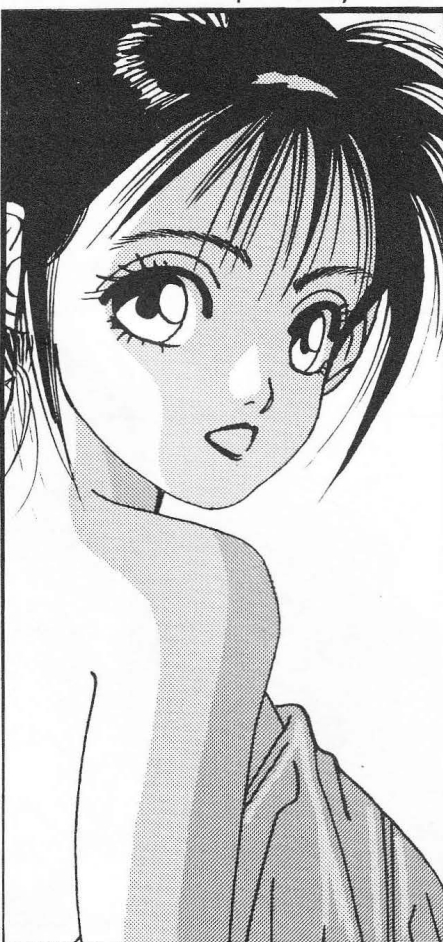
**Q** How can a moiré effect (pattern inadvertently created depending on the way 2 sheets of screen tone are layered) be avoided? 



Here is a case where a pattern in the tone is not desired



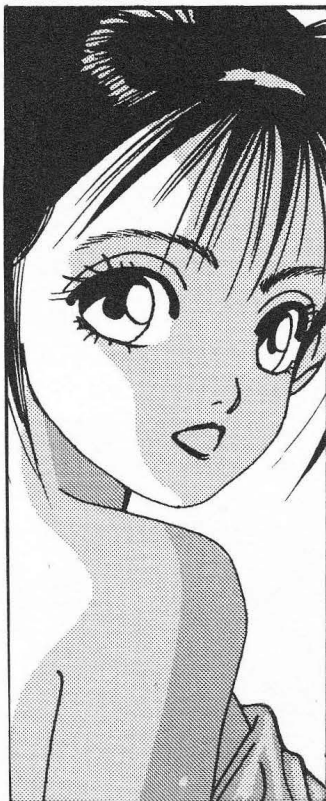
Here, the dot patterns were first aligned and then the 2 sheets shifted slightly so the dots did not perfectly overlap



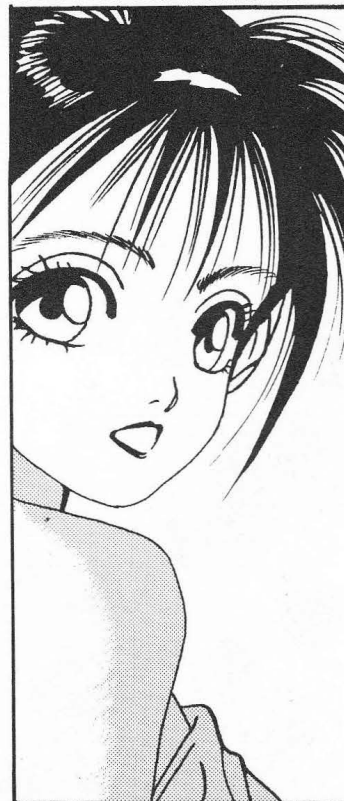
Here, first one sheet was laid over the entire target area.



Next, the second tone for the darker shadows was added.



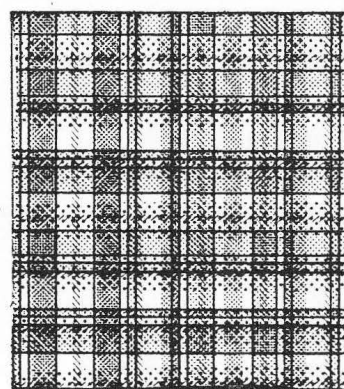
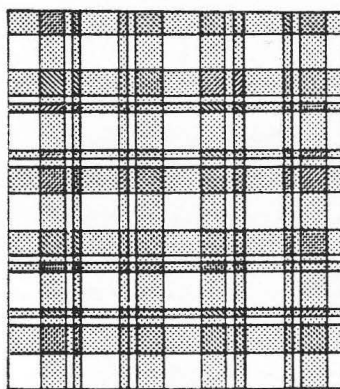
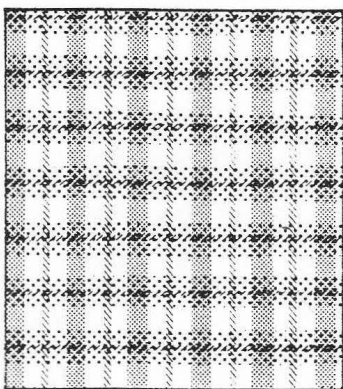
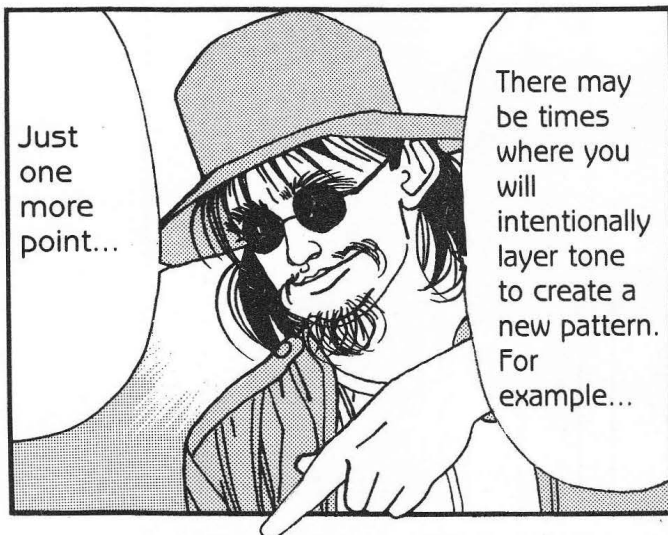
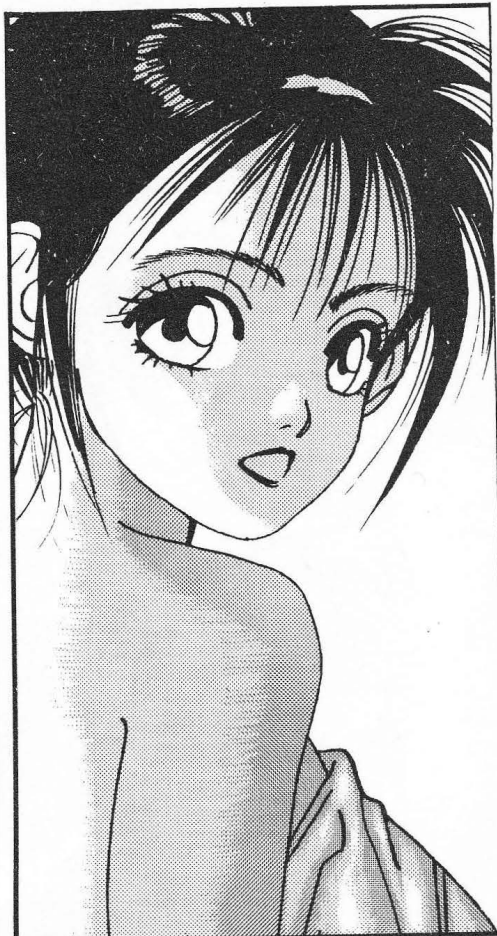
Here, the tone for the darker shadows was added first and then etched.



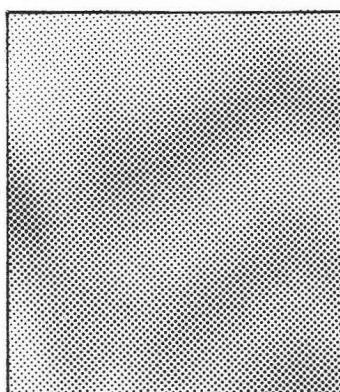
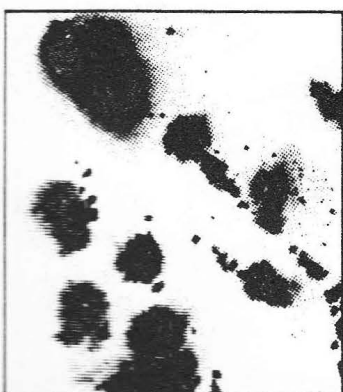
**A** Place both sheets of tone so that the dots align. Keep an eye on the tone overall while shifting the 2 sheets around until the moiré effect disappears.



Next, the second tone was added.



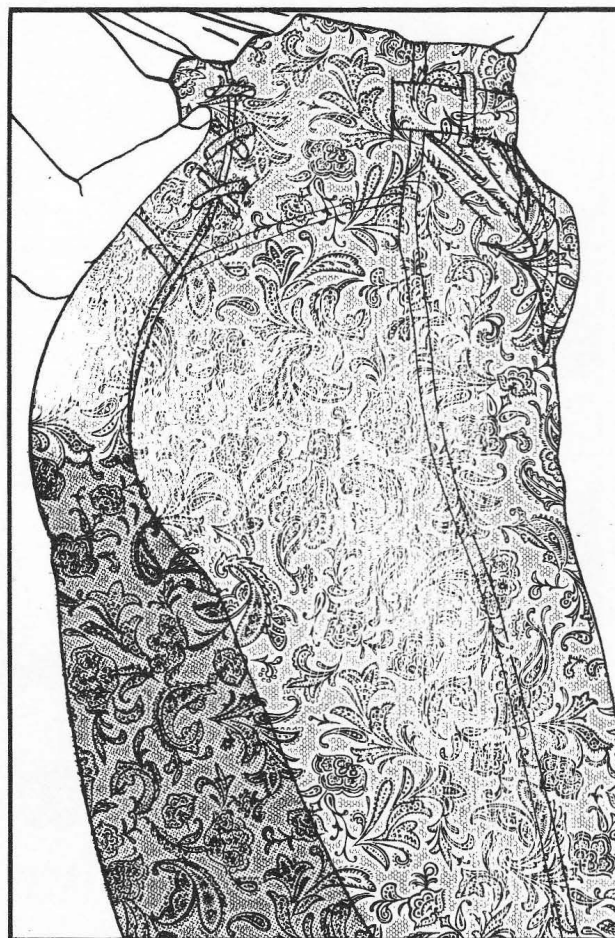
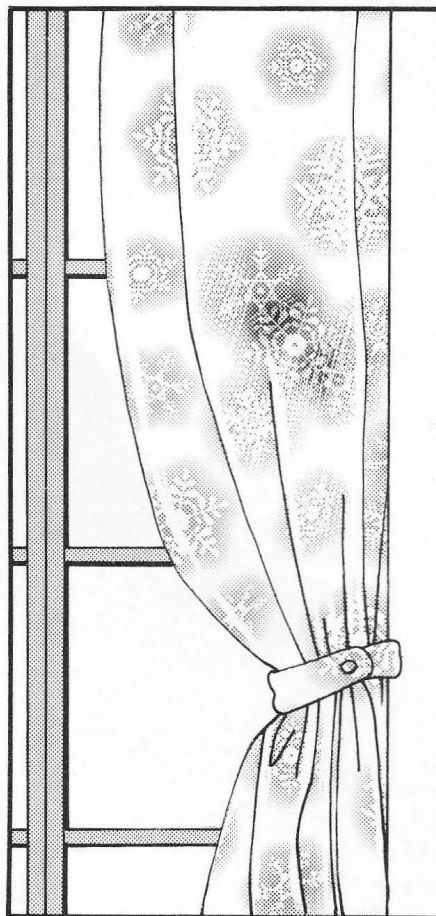
There are many other possible combinations out there. Play around and see what you get.



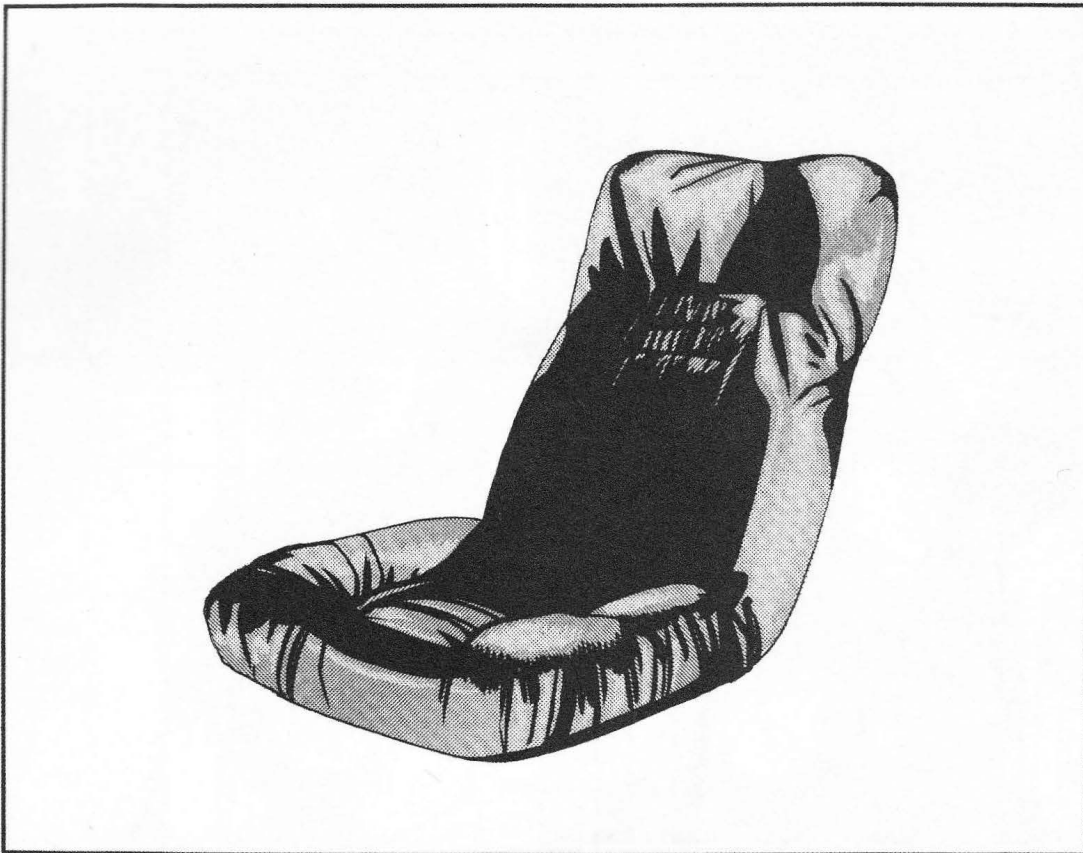
Shown at actual size



Using patterned tone without etching it at all will result in a somewhat flat image. Try etching the tone to give your artwork more depth. You will find the result interesting.



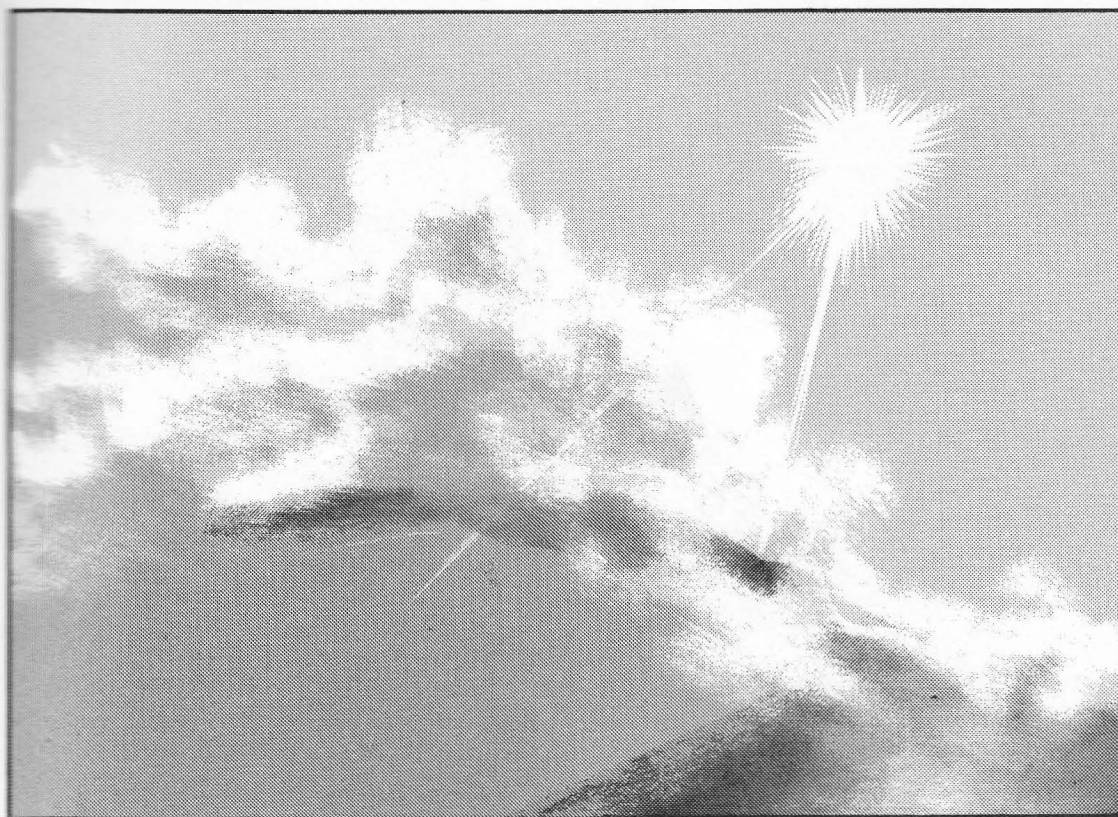




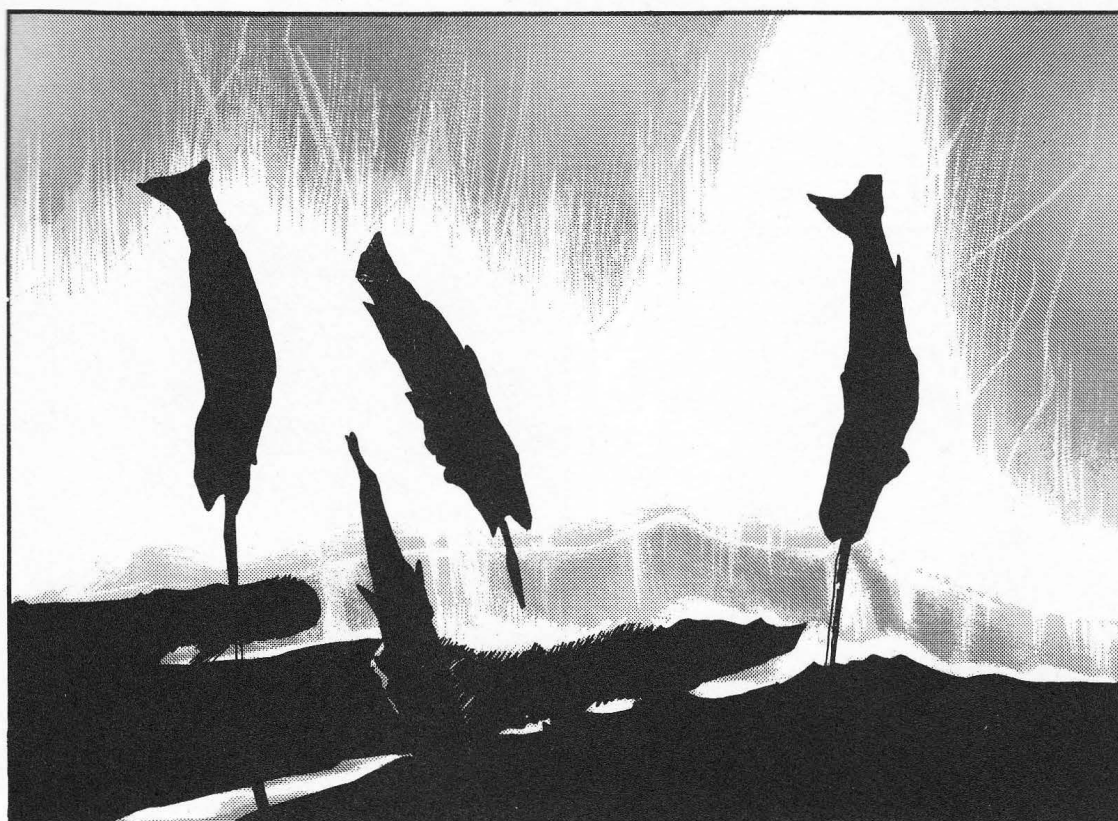
↑ First, spot blacks, filling in the darkest areas with solid black. Next, cover the entire drawing with IC62, etching it to allow the next darkest areas to remain. Last, add the 2nd layer of IC62, etching the lightest areas of the image.



↑ This image was created by triple-layering IC62 tone. The key to using screen tone is spotting blacks. The result is play and contrast of darks and lights.

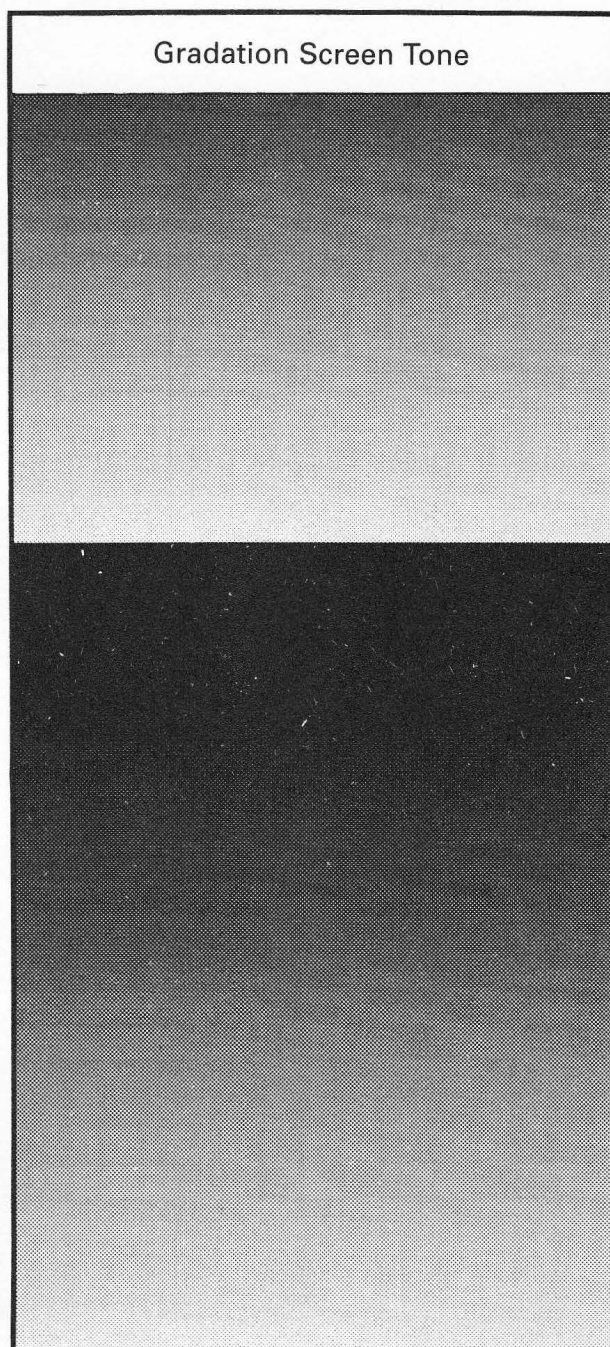
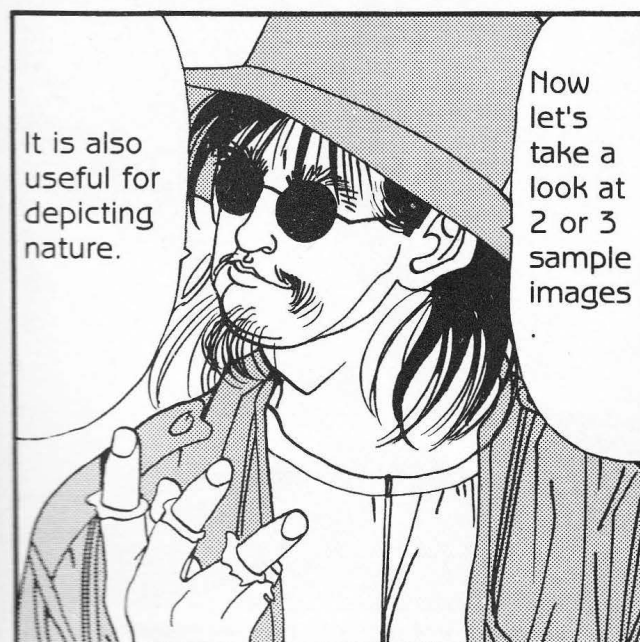
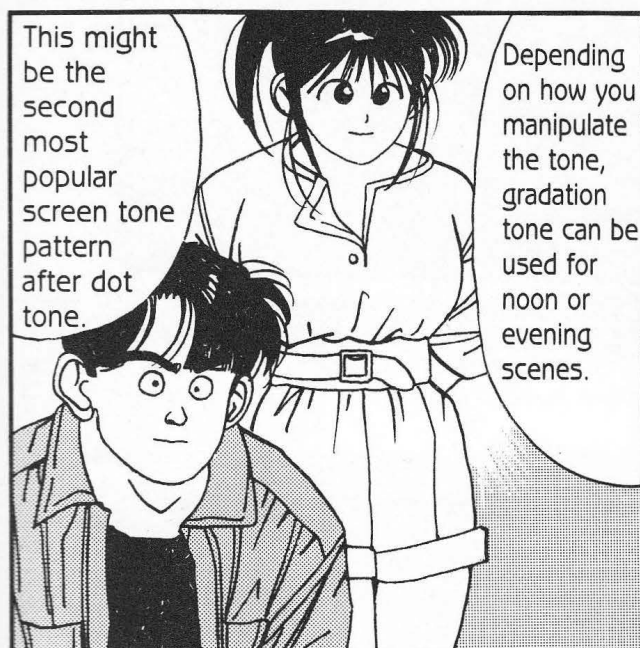
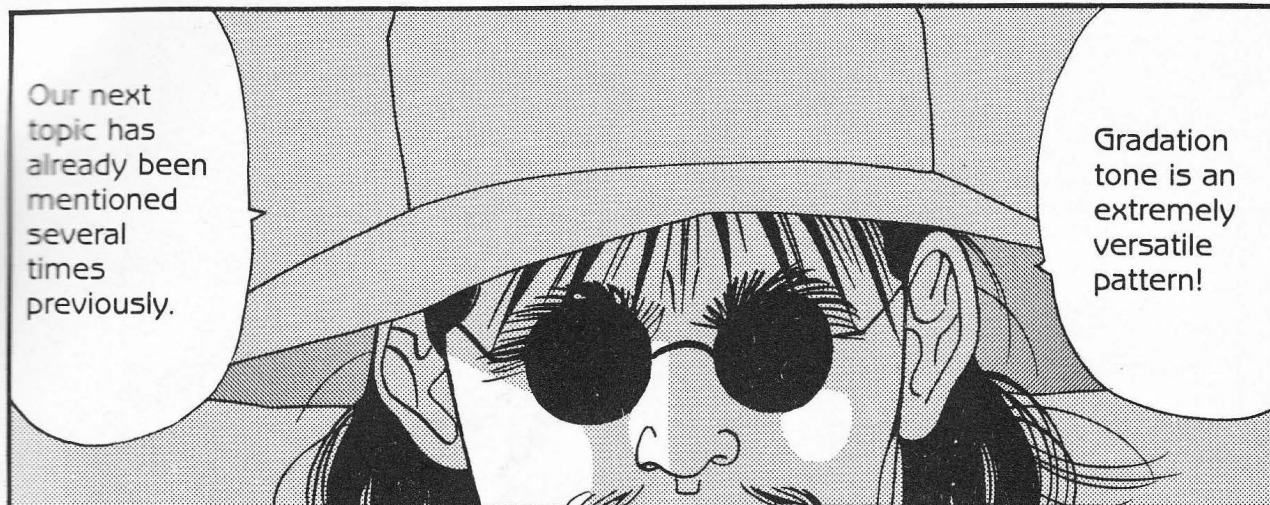


↑ This image was also created by triple-layering IC62. However, this composition lacks any solid black areas, making it seem to lack balance.

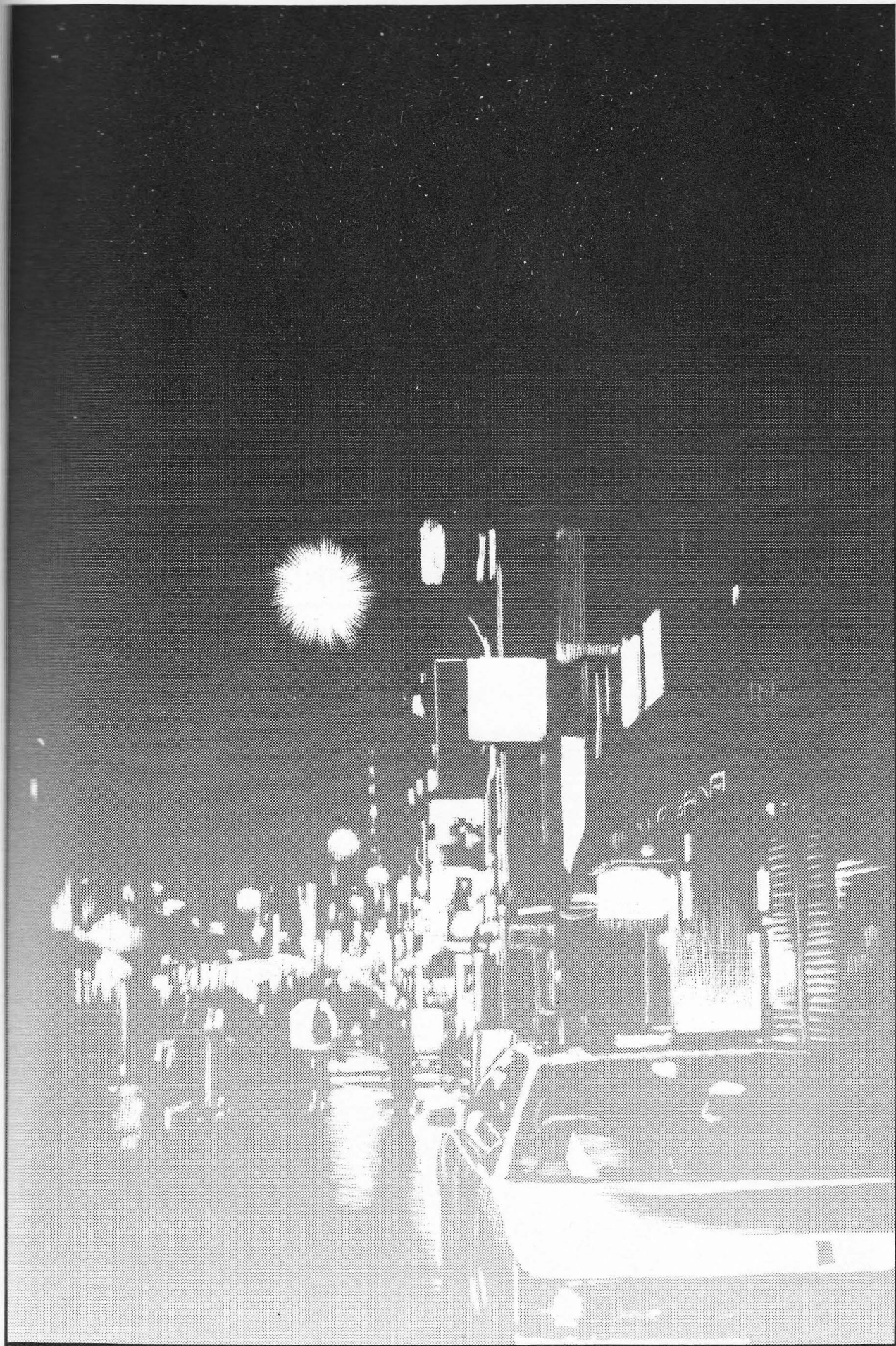


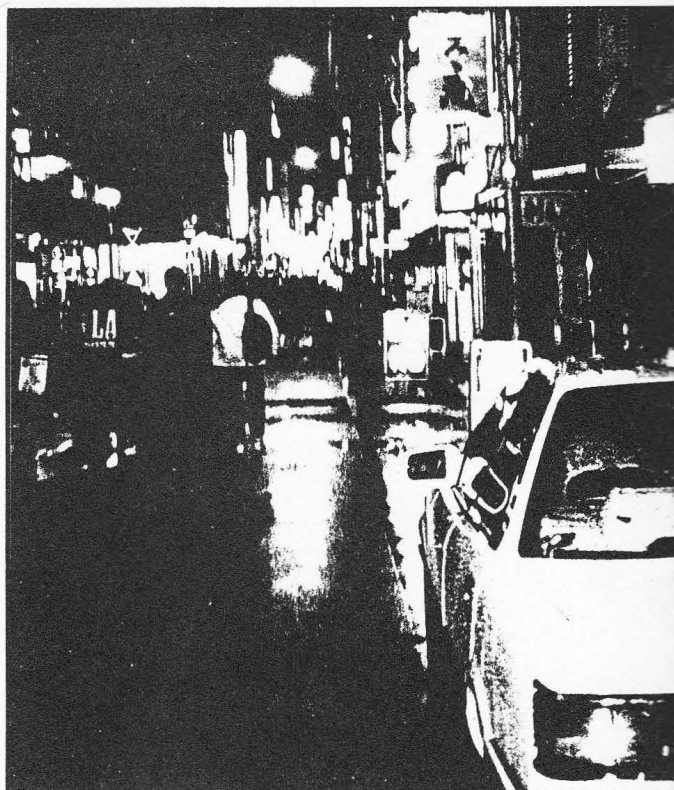
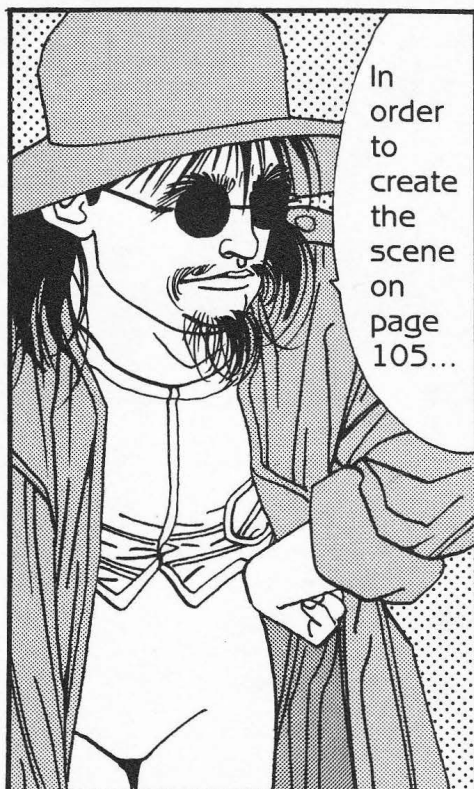
↑ This image was created by double-layering IC62. If the silhouettes of the fish are clearly recognizable to you, then I guess we can consider this composition a success.



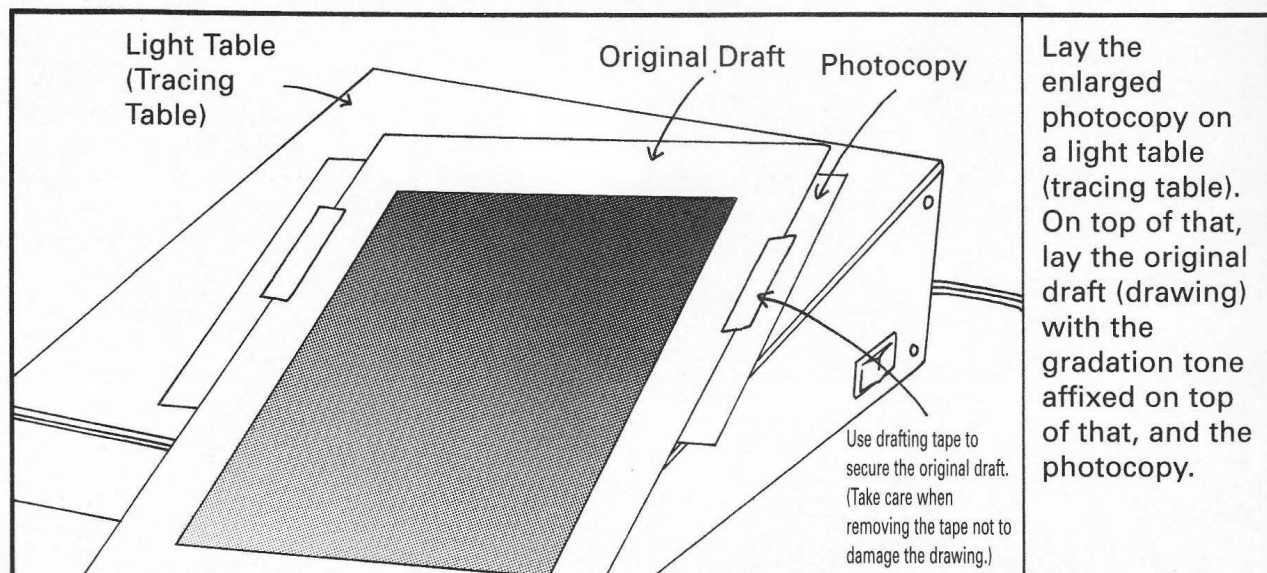






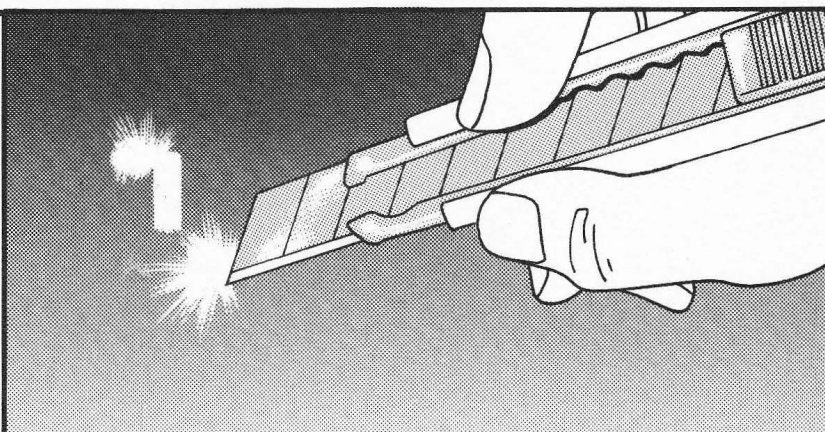


...photocopy and enlarge the photograph.



Use a craft knife to etch areas of light.

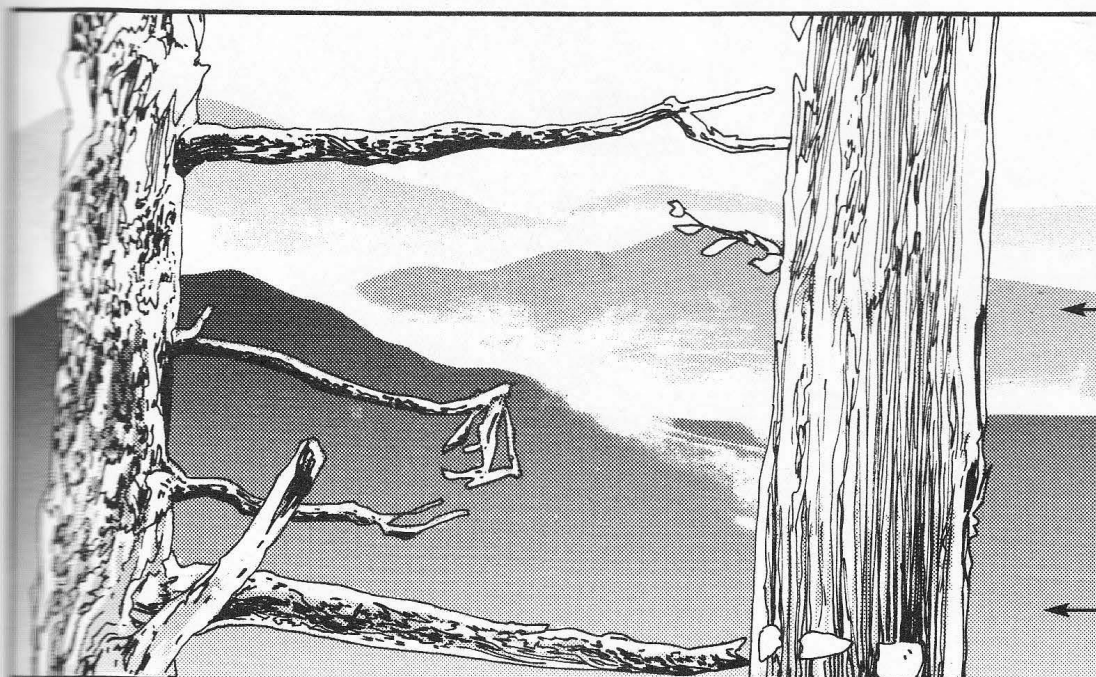
From time to time, remove the original draft from the light table and check the appearance of the tracing.







### Sample Artwork Using Gradation Tone

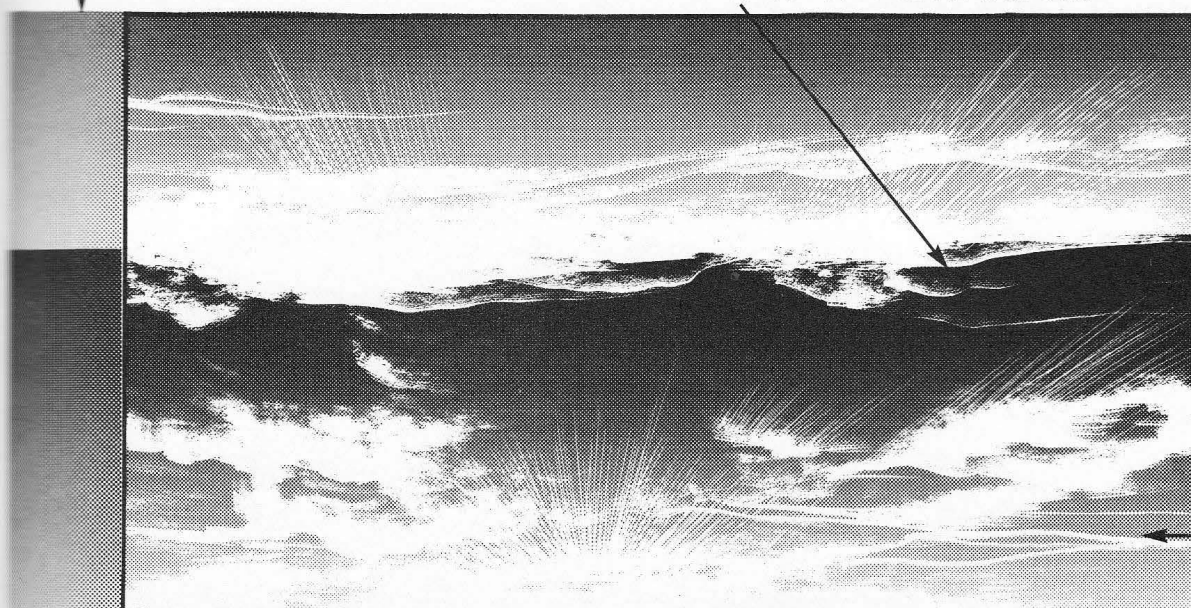


← The light section of IC433 was used here.

← Also lighter section of IC433 was used here.

Appearance before etching: IC430

Border where the gradation screen tone sheet was cut.

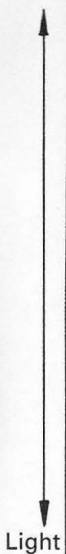


← IC430

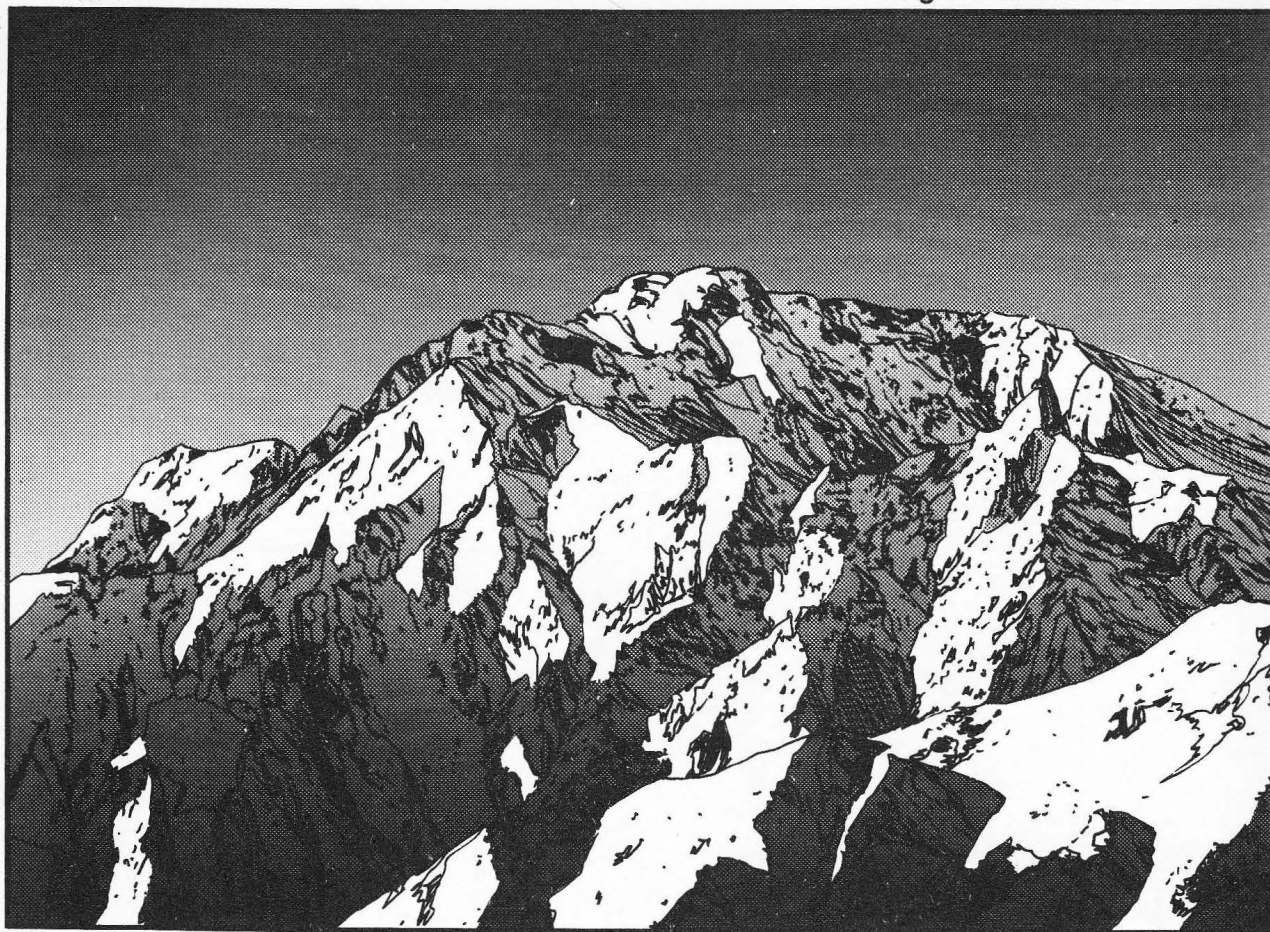




Dark



Light



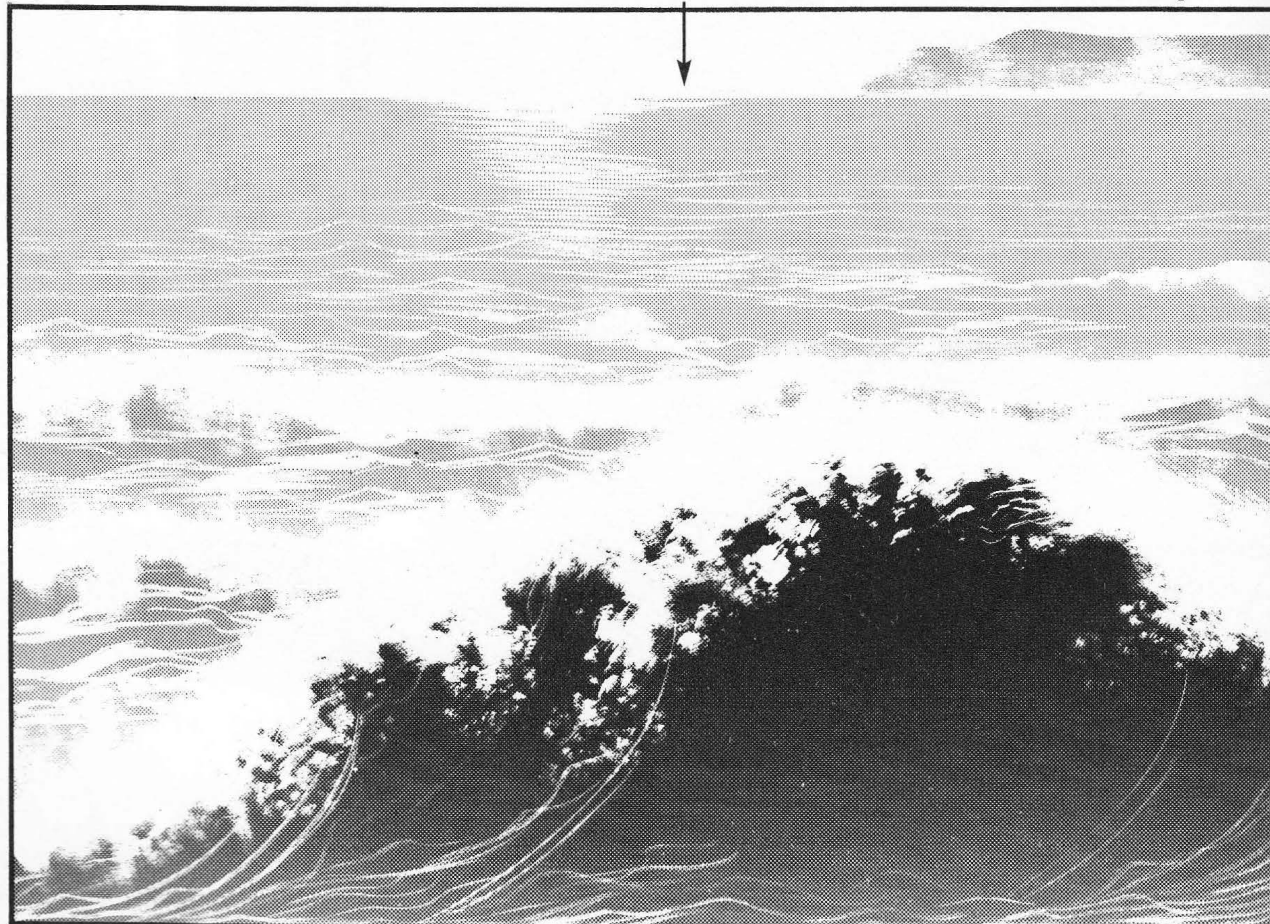
Light



Dark

↑ Establishing the direction of the light source will allow you to determine where to attach the screen tone.

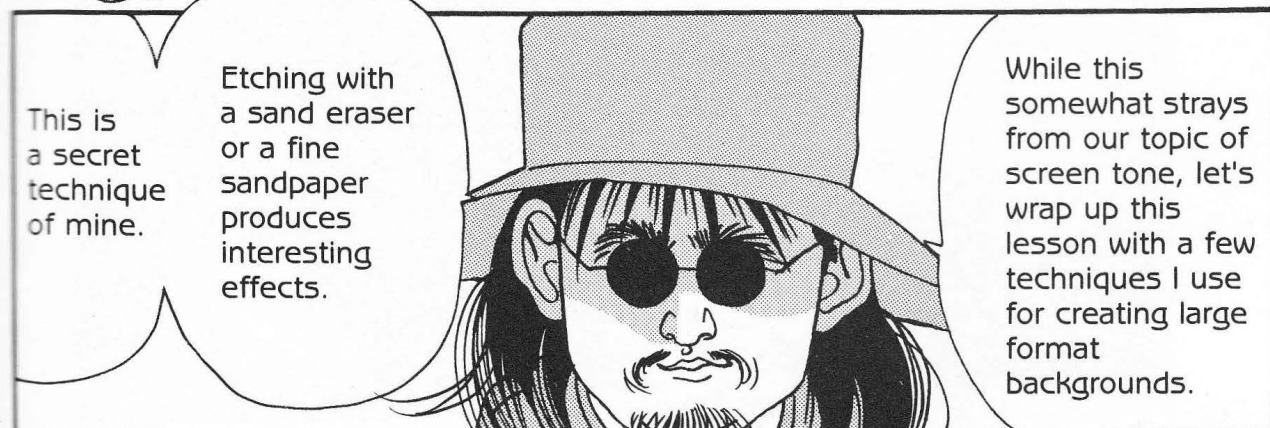
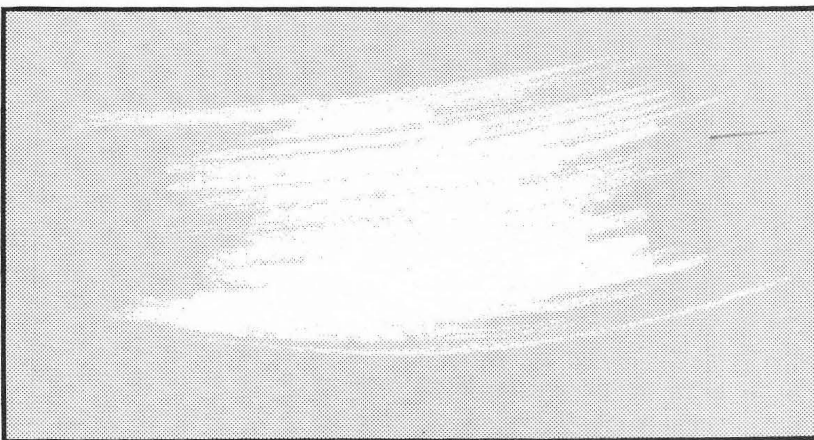
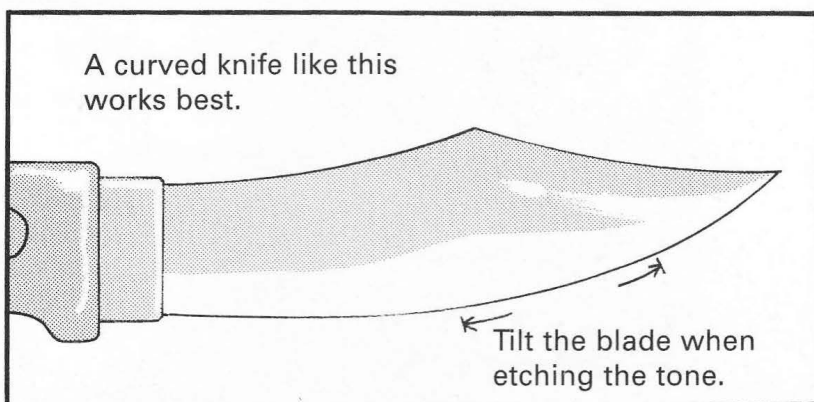
Dot screen tone was used in the background.



↑ Gradation tone was used in the foreground.



A curved knife is faster and easier than a craft knife when etching broad areas of tone.



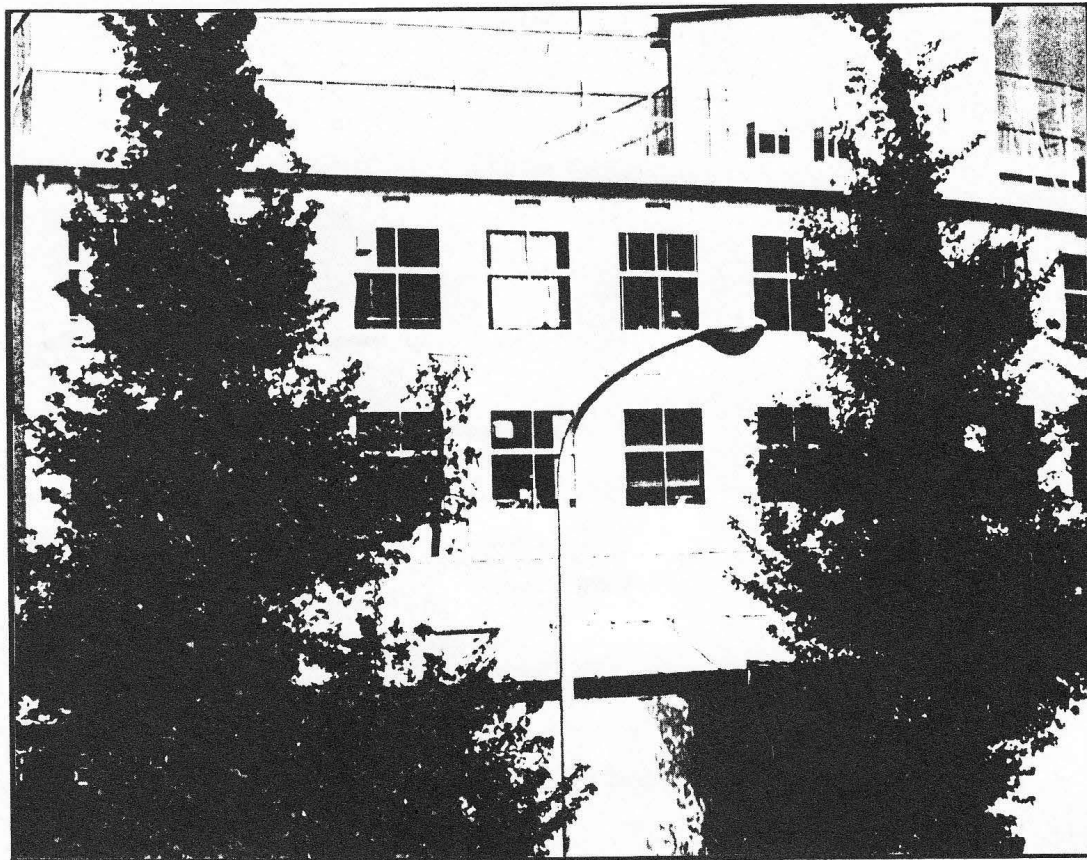
This is a secret technique of mine.

Etching with a sand eraser or a fine sandpaper produces interesting effects.

While this somewhat strays from our topic of screen tone, let's wrap up this lesson with a few techniques I use for creating large format backgrounds.




**A Photocopy of a Snapshot Enlarged 200%**



**A Line Drawing of the Photocopy with Solid Black Areas Filled**



**Q** What is the trick to creating daytime scenes? 



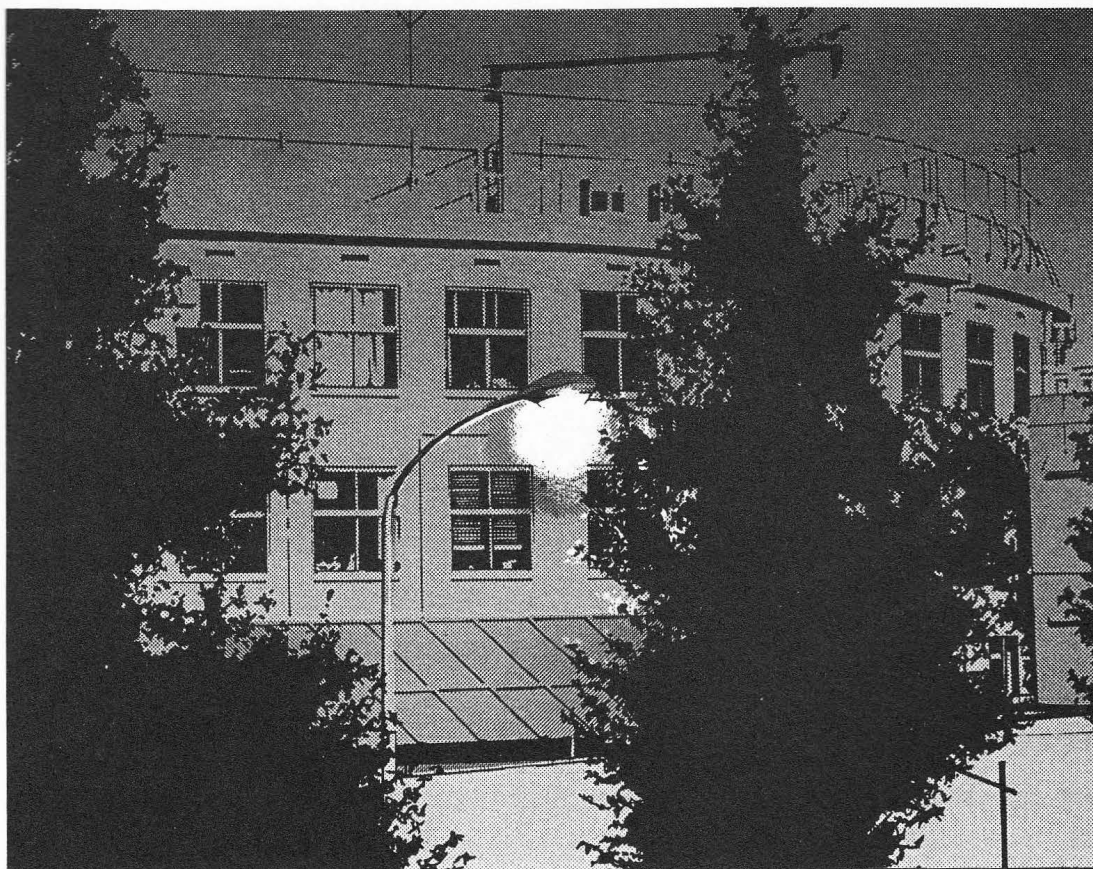
## Screen Tone Added to Create a Daytime Scene

Primary tone used: IC62



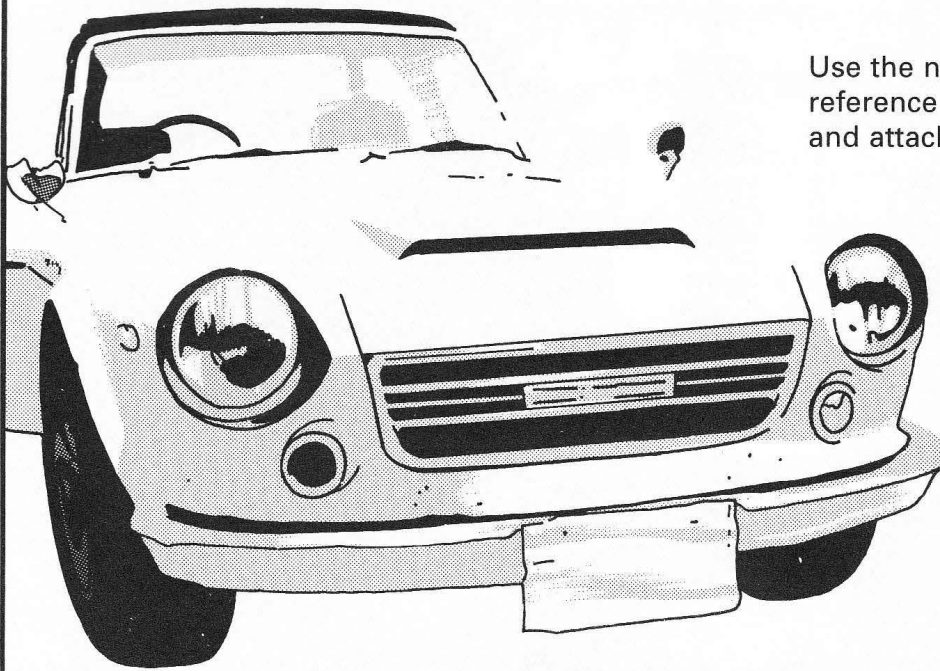
## Gradation Tone Added to Create a Nighttime Scene

Gradation tone IC433 used

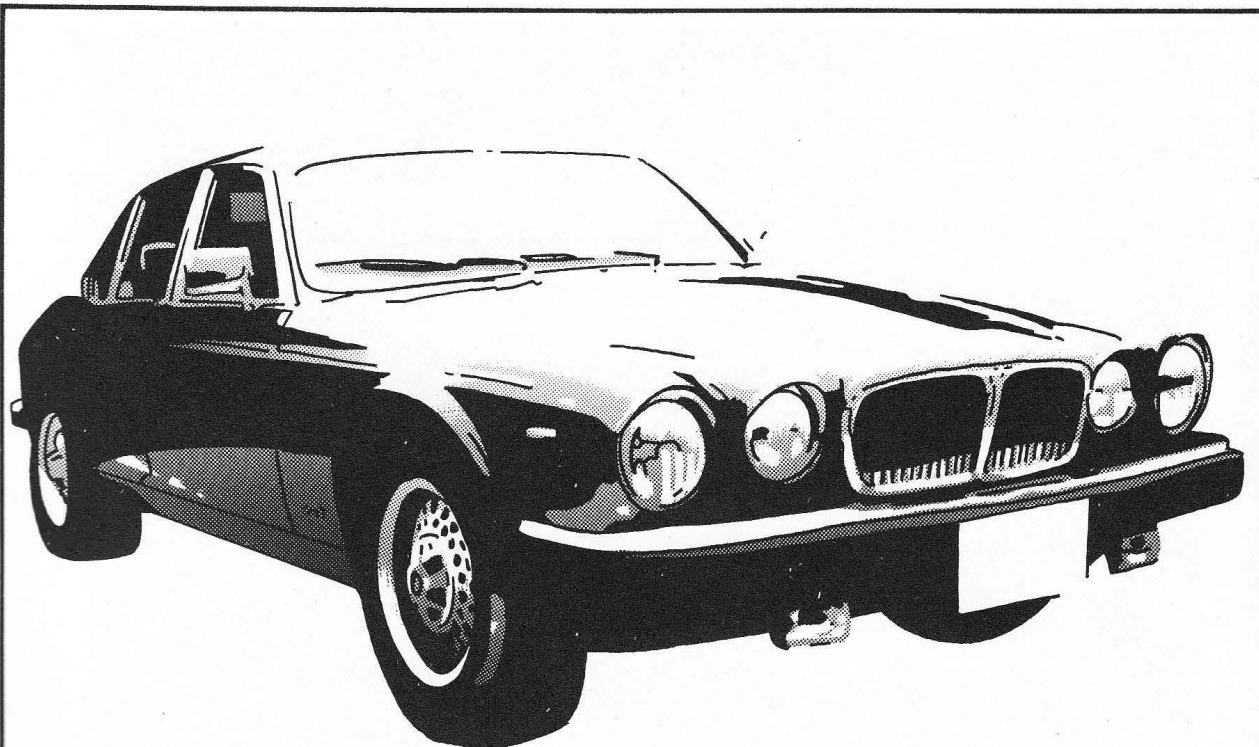


**A** Be conscious of the placement of sunlight when etching. Clearly delineate darks and lights. When depicting night scenes, keep the composition dark and dim. Adding electric lights in 1 or 2 locations will emphasize that the scene takes place at night.

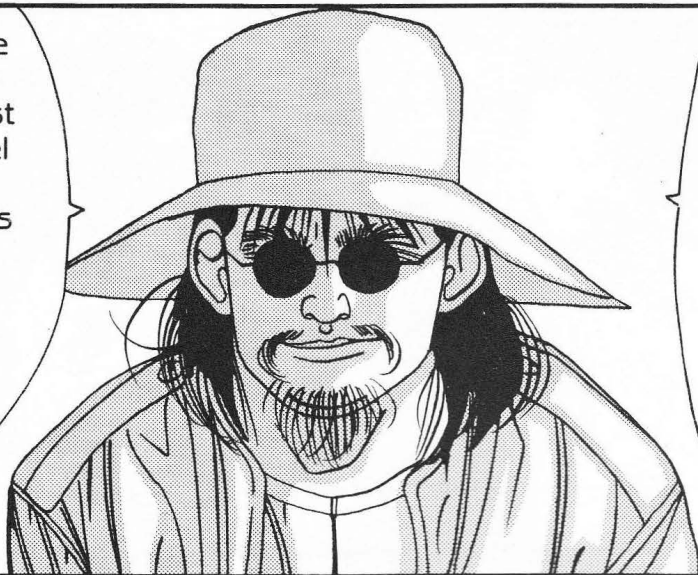
Use a black and white ad from a newspaper when attempting to create a realistic portrayal of a car. Obviously, if you were to duplicate the image as is, you would be guilty of copyright infringements, so...



Use the newspaper ad as reference for your artwork and attach screen tone.

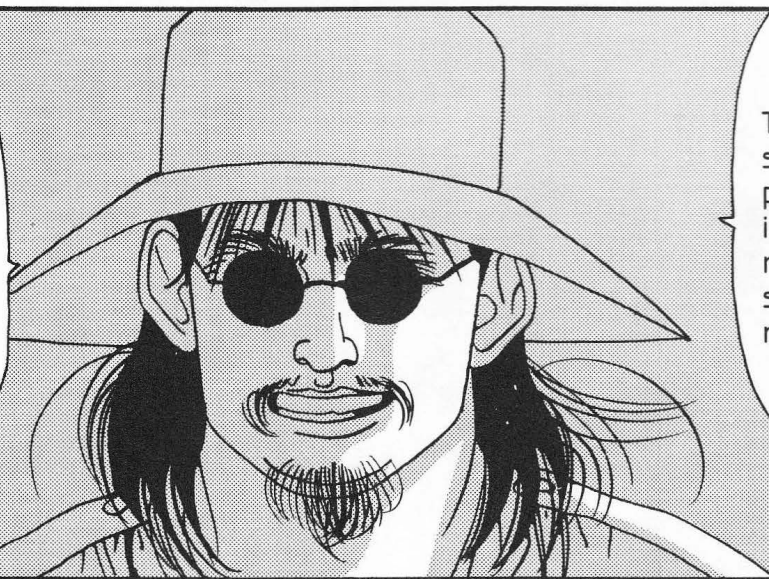


If you ever come across artwork by a *manga* artist in which you feel the background or tone work was particularly well executed, cut it out and keep it in a scrapbook for future reference.



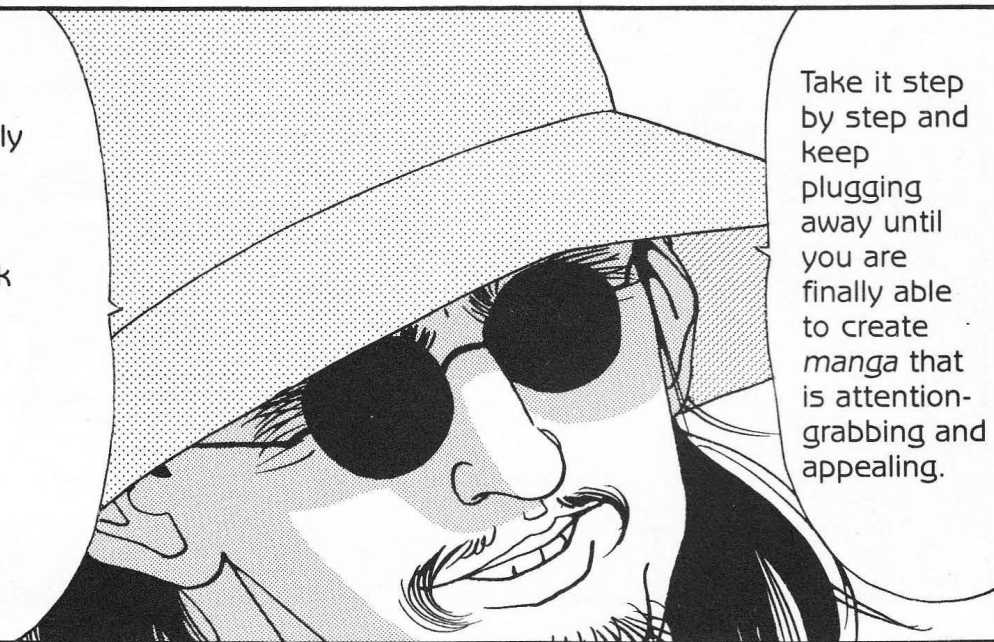
As you might expect, it is illegal for you to copy and pass off another artist's work as your own. However it is acceptable for you to use the techniques employed in that work as reference.

When I was younger, I kept a number of scrapbooks for buildings, for cars, for nature, for people, and miscellaneous scrapbooks. I still have them today.



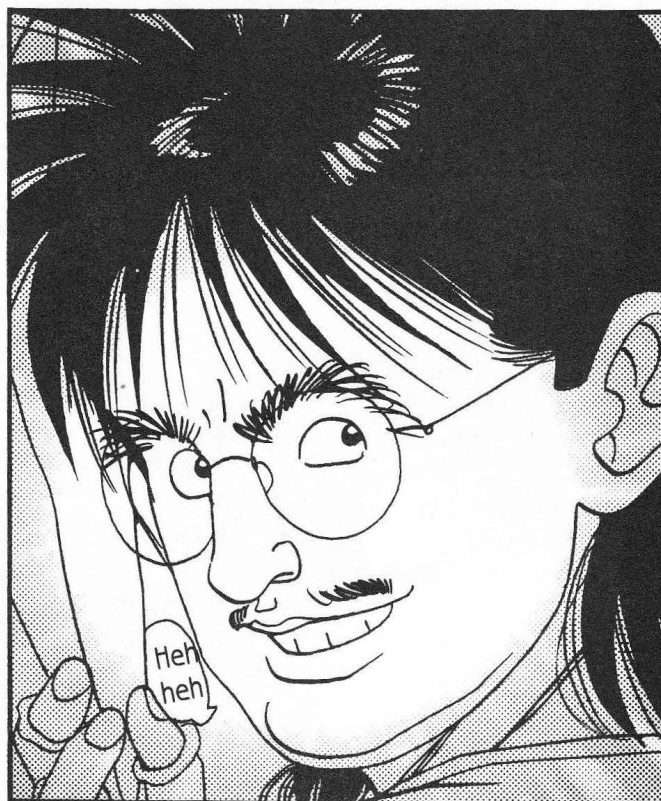
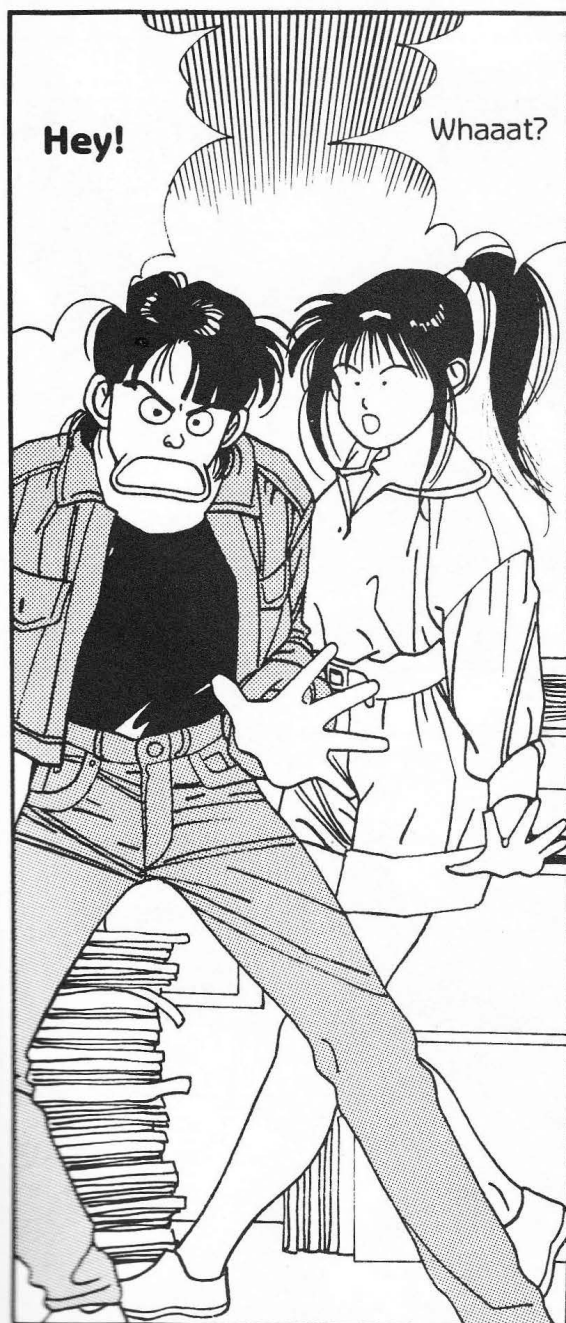
These scrapbooks proved invaluable reference sources to me.

This book has only touched on the very tip of the iceberg that is *manga*. First, pick up a pen. That is foundation of *manga*.

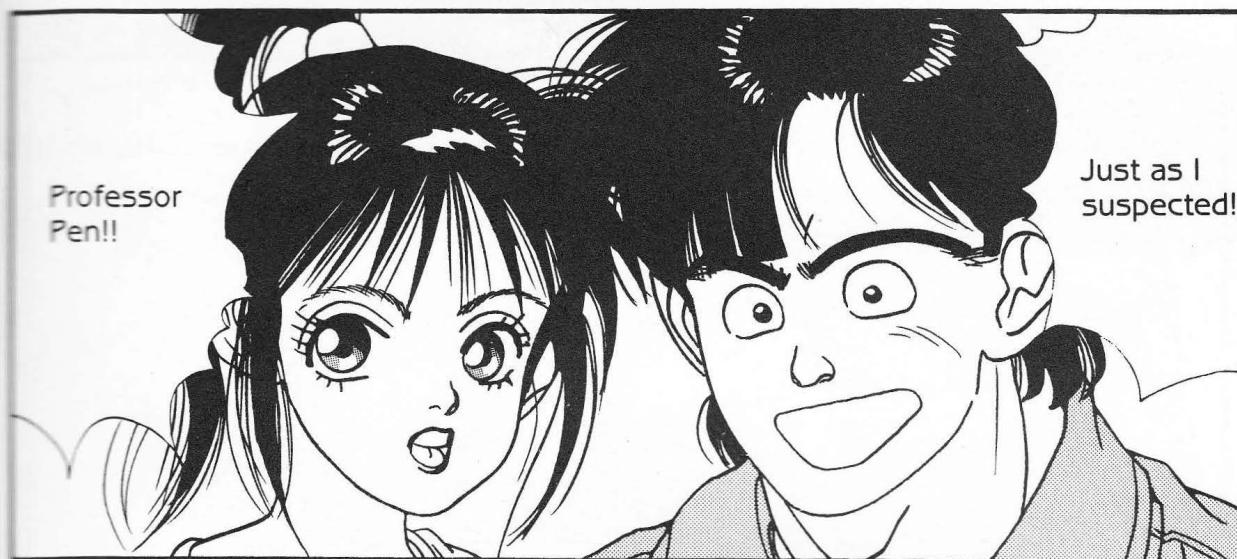


Take it step by step and keep plugging away until you are finally able to create *manga* that is attention-grabbing and appealing.





**Q** I have tried using white poster paint, etc. on top of screen tone, but it repels and won't soak in. What should I do? 🐱



Professor  
Pen!!

Just as I  
suspected!



Sorry, kids. Heh heh.  
Professor Ton had  
some urgent  
business to take  
care of.



I thought I  
smelled  
something  
fishy.

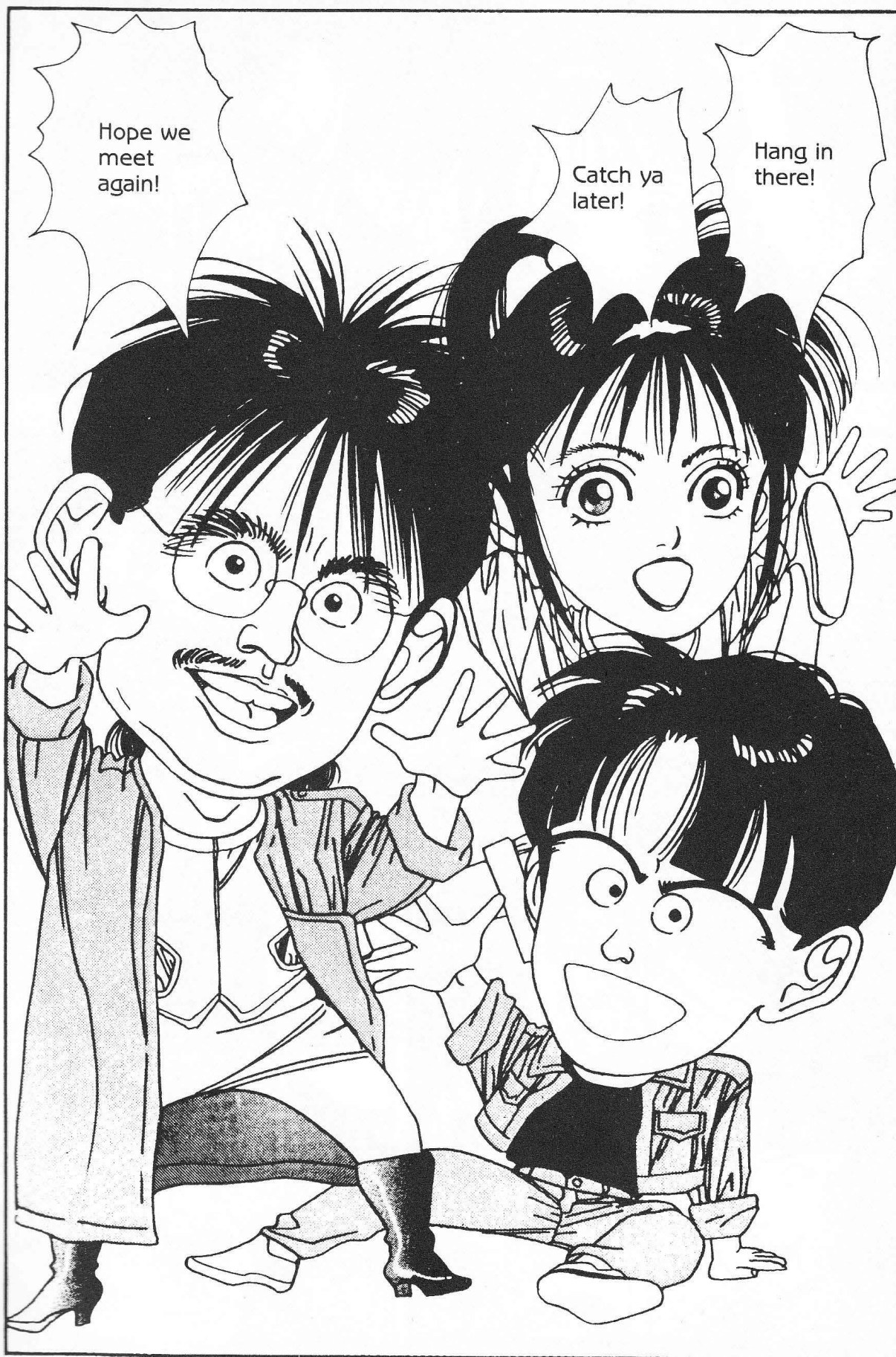


Their  
voices  
seemed  
the  
same  
too.



Once  
you've  
created  
your own  
*manga*,  
be sure  
to show  
it to me.

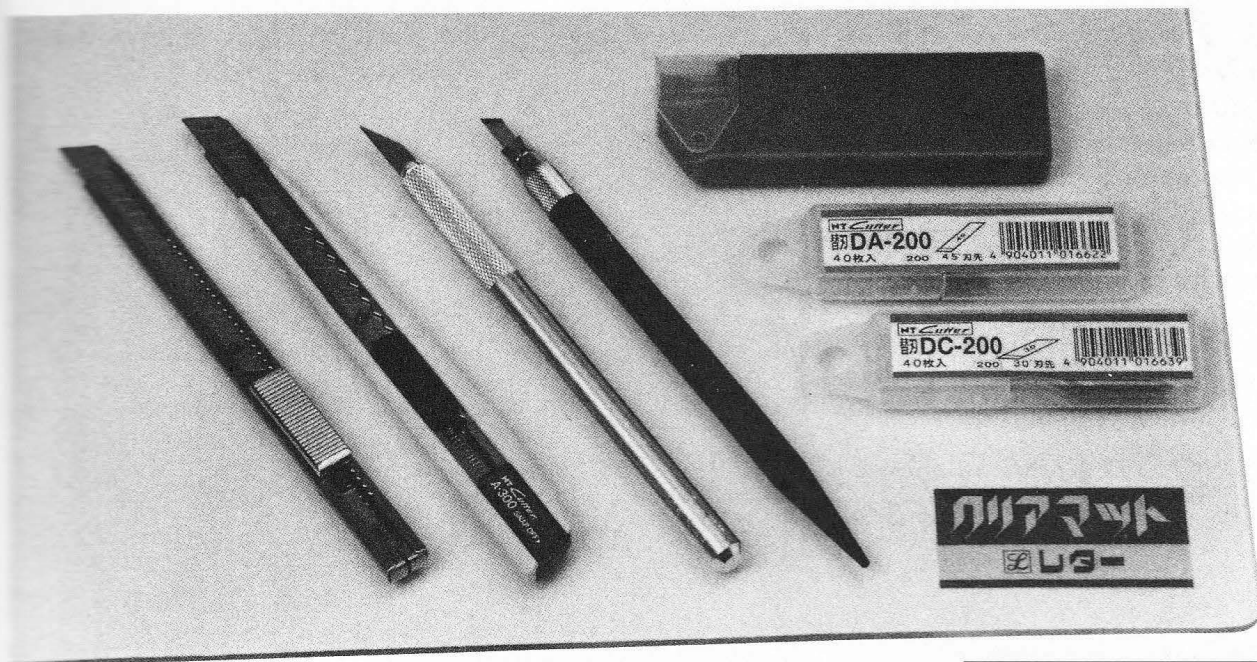
I'm  
looking  
forward  
to seeing  
what you  
can do.





# Screen Tone Materials and Tools

All of the products shown on this page are provided courtesy of Too Corporation.

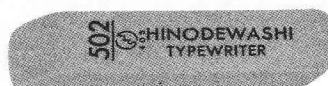
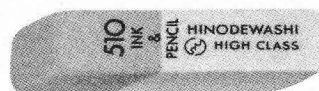


## Useful Items



### Feather Brush

This indispensable item is primarily intended to sweep away bits of screen tone, but it is also used to clean up eraser bits and other particles around the drawing.



### Sand Eraser

This is used to create smooth tone etchings.

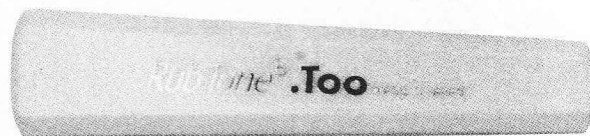
### Tone-Scrubber

Tone-scrubbers are used to rub and press down the screen tone. They come in many shapes and sizes. Make sure you have one with a somewhat pointy tip for detailed areas of tone.



### Non-Photo Blue Pencil (Light Blue)

This is used to mark down lines of areas where screen tone is to be affixed but which do not have drawn contours.



## Craft and Utility Knives and Replacement Blades

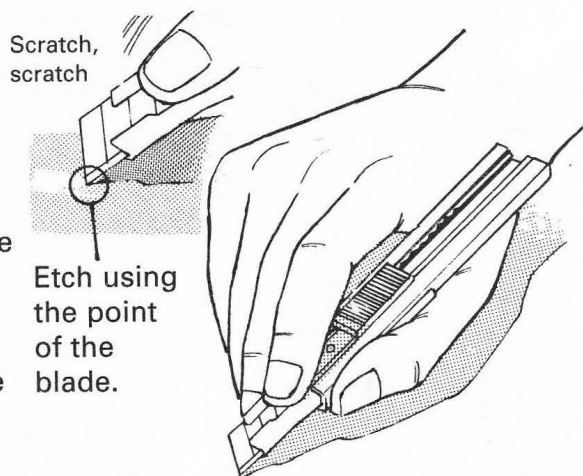
First, select a craft knife. Knives with retractable blades seem to be more popular than pencil-type knives. Craft knife blades dull quickly, so change them frequently. Pencil-type knives require more time for changing blades than do retractable knives, so they are consequently less practical. However, pencil-type knives are excellent when using a straightedge to etch tone. Lay a desk mat underneath the drawing to protect the desk when using a knife.

# Bonus: Tone Etching Tips

When etching, hold the craft knife at an angle closer to the drawing.

When cutting, hold the craft knife in the same manner that you would a pencil

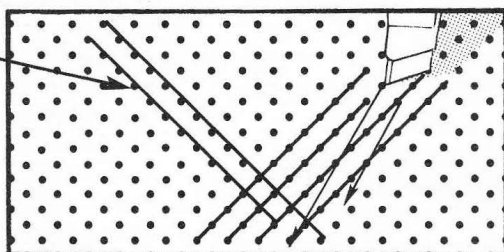
There are various techniques for etching screen tone, which have been compiled on these pages. The basic technique for holding the craft-knife is illustrated in the figure to the right.



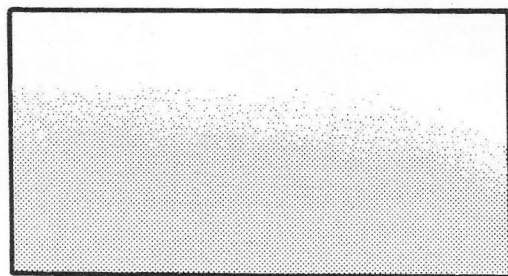
## Basic Etching Techniques

The key point in etching is to note the direction in which the screen tone dots are aligned and to etch at a 22.5° angle, blurring the screen tone sheet's borders.

When using cross-hatching, note the direction of the dots running crosswise.



For tone where the dots lie at a 45° angle, etch at 22.5°.

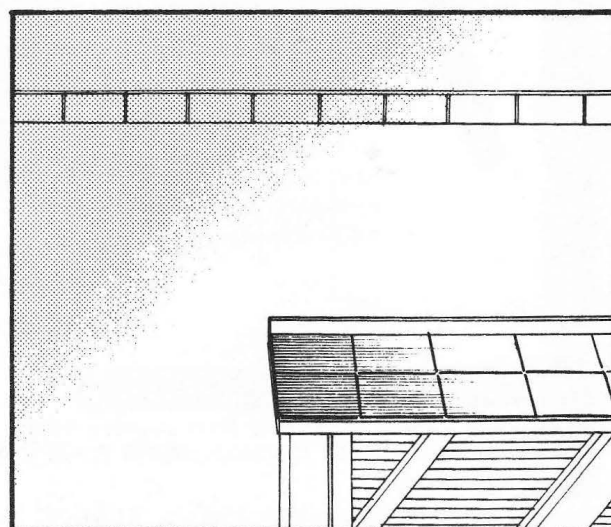
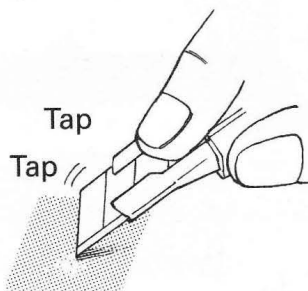


Creating a *Bokashi* (Blurring) Effect Using Cross-Hatching



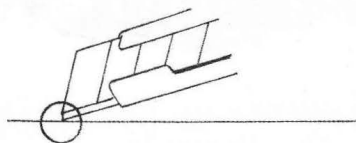
Another method consists of scratching dot by dot by wielding the craft knife in a tapping motion.

Use a tapping motion to etch the tone. While this may take time, be patient and keep working.

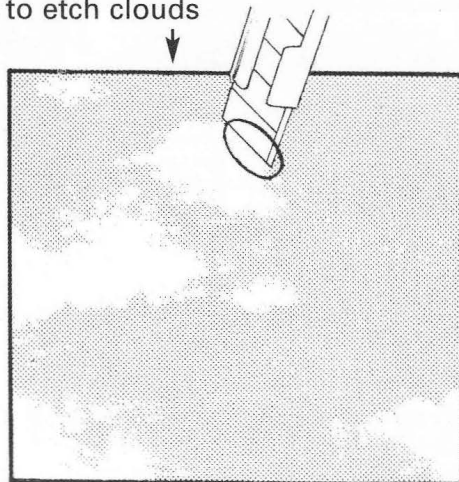


Try using this technique to suggest concrete and other textures.

Holding the knife as illustrated to the right allows you to make fine, detailed etches.



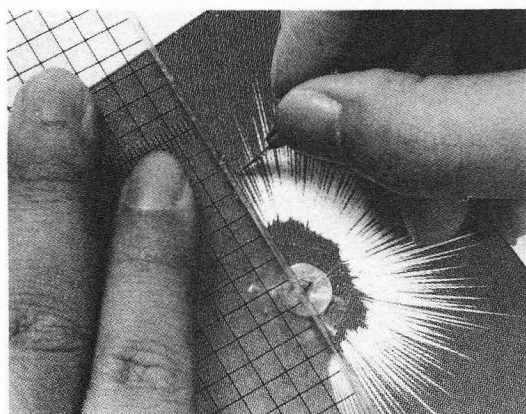
- Use the edge of the blade to etch clouds



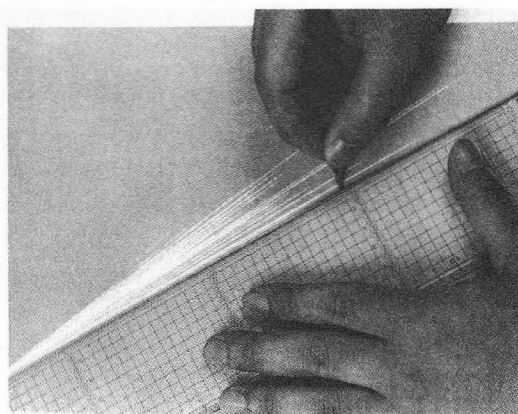
Etch the tone lightly. Avoid applying pressure.

Use fine movements when etching with the side of the blade.

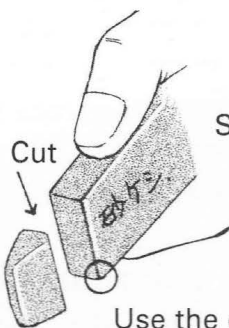
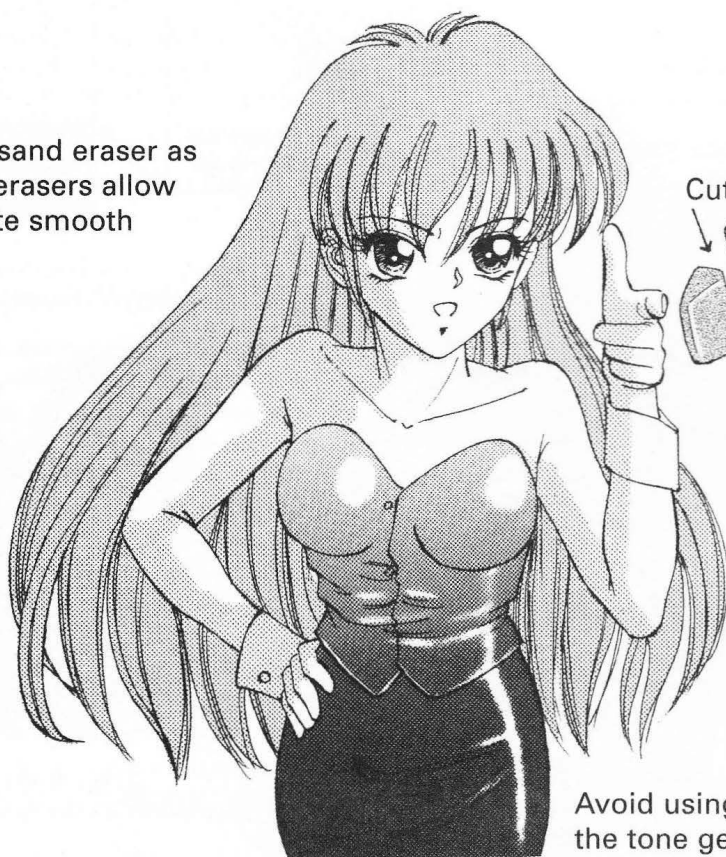
- From time to time, use a straight edge to create straight, clean etched lines using a pencil-type craft knife.



Place a thumbtack in the center of the target area when etching a flash effect.



- Try using a sand eraser as well. Sand erasers allow you to create smooth etchings.



Sand Eraser

Cut

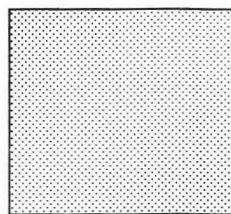
Use the corner to rub the screen tone.

Cut the end off the sand eraser and use the sharp corners formed to rub the screen tone. This will allow you to do fine, detailed etching with the eraser.

Avoid using too much pressure. Rub the tone gently with the eraser.



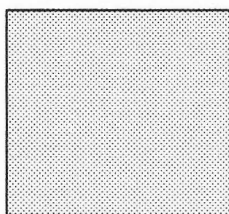
# I-C® SCREEN All About IC Screen



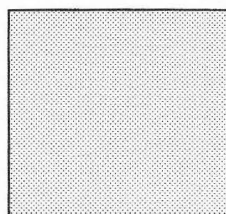
42.5/10% S-31



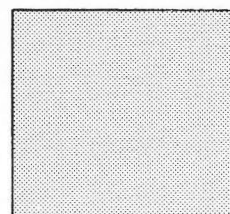
50/10% S-41



55/10% S-51



60/10% S-61



65/10% S-71

## 42.5/10% S-31

↑ This indicates the number of lines

Product number

The above illustrates that the greater the number of dot lines, the smaller the dots.

The most commonly used screen tone in *manga* are the 42.5 (for IC tones, the 30s series) to 60 lines (for IC the 60s series). If the dots are too tiny (i.e. there are too many lines per sheet), then the dots will not show up when the *manga* is printed, making it impossible to recreate the artwork in pristine form. However, the number of manga artists using 65-lined tone (for IC, the 70s series) has been increasing recently.

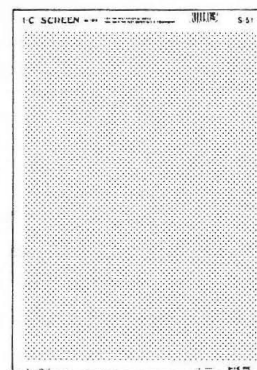
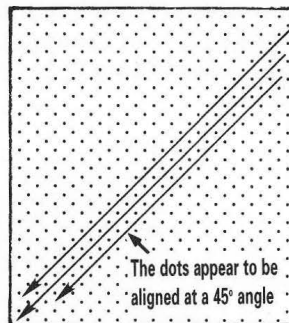


These are the screen tones most commonly used and seen in *manga*. They are all dot patterns.

The number of lines in fact indicates the number of lines per inch (2.54 cm). The screen tone is printed with the dots at a 45° angle with the sheet positioned straight up and down.

For example, 42.5-lined tone has 42.5 lines of dots per inch.

"Dot" indicates the individual marks of tone.



The sheet straight up and down is in 0 position.

**Even with the same initial drawing, the type of screen tone used can change the look of the artwork.**

Fewer lines of tone prevent the dots of tone from overlapping, giving the artwork softer appearance. Select tone according to the look you are trying to achieve.



① Hair rendered in S-31

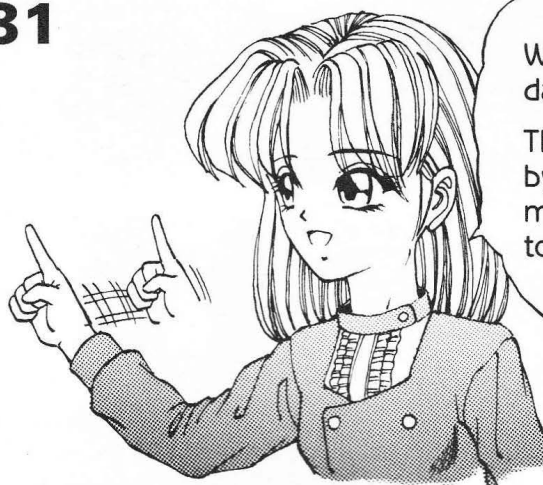


② Hair rendered in S-61

S-51 and S-770 were used in both figures for the face shadows and clothing, respectively.

# 42.5/10% S-31

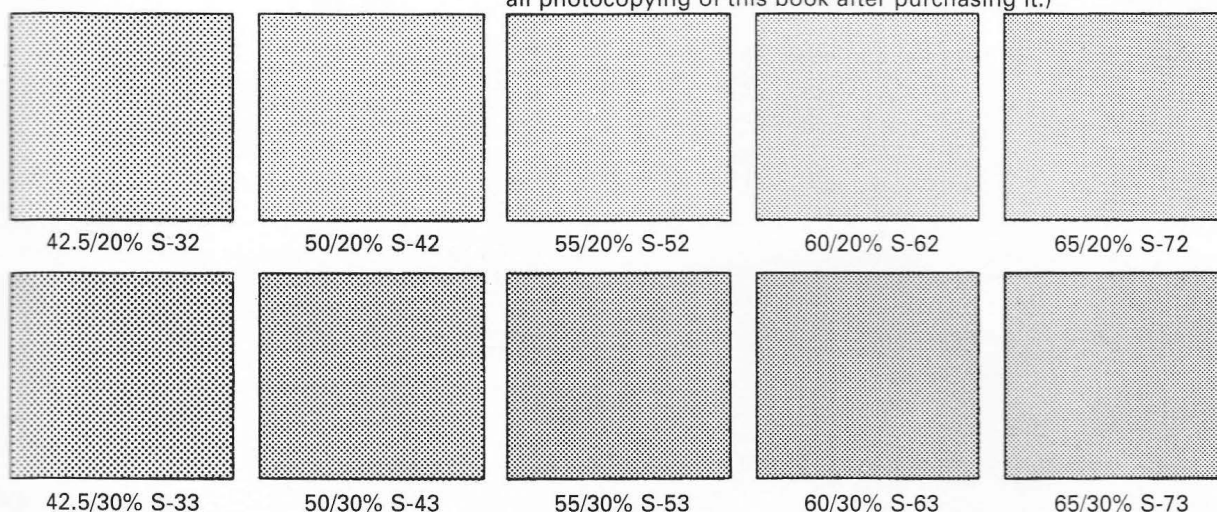
↑  
The larger the percentage value, the darker the tone. When tone is too dark, there is the risk that the dots may blur or that drawn lines may become indistinguishable during the printing process.



What about the darkness of the tone?  
The number followed by the percentage mark (%) indicates the tone value density.

**The tone value darkens as the last digit in the product number increases.**

The images below show the products in actual size. In magazines, the screen tones are reduced, causing the tones to appear darker than they actually are. Those readers who are curious are advised to make a reduced photocopy of this page to see the resulting effect. (Please do all photocopying of this book after purchasing it.)



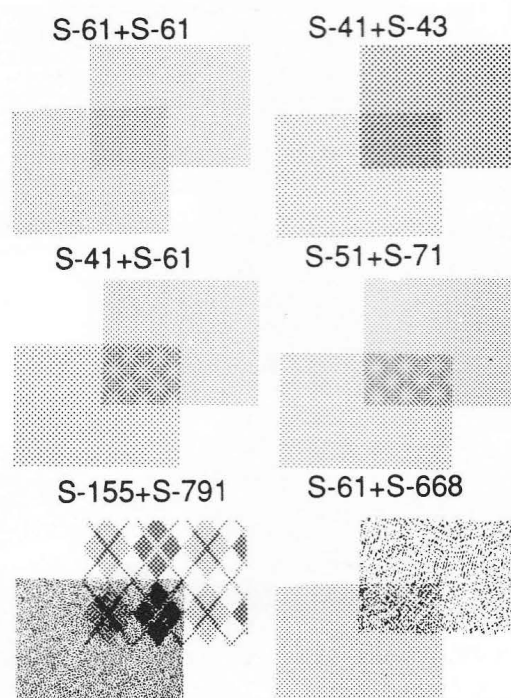
IC screens are available in values from 5 to 50%. Product numbers in the 00 to 95 range are strictly dot tones. The final digit indicates the value density: 0=5%, 1=10%, 2=20%, 3=30%, 4=40%, and 5=50%.

E.g.: S-44= 50 lines at 40% density. Incidentally, 100% density is solid black.

## Layering Screen Tone

Different effects can be created by layering 2 sheets of screen tone. The most common method is to layer 2 sheets of identical tone. Unless the angle of the tone is changed, this is the best method for avoiding a moiré effect. Layering tone of different product numbers (different number of lines per inch) is guaranteed to produce a moiré effect, owing to the disparity in densities. Look at the various tones and compare the differences in line densities per inch.

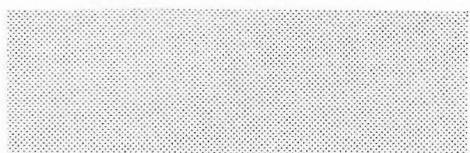
There may be times when you will intentionally layer 2 sheets of different tone in order to create an effect. In addition to the basic dot pattern, random dot tones may also be layered, producing unexpected results. Try playing around with layering different tones.



# Letraset's Screentone

LETRASET JAPAN

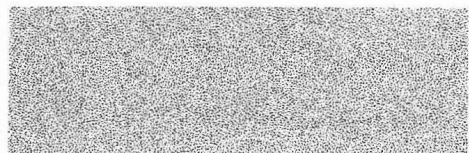
## Types of Screentone and Their Characteristics



### Dots

ST61

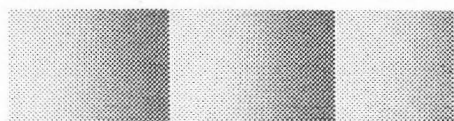
You will need to note the indication of the number of lines per inch when purchasing tone to be used in manga targeted for publication. For example, 20 lines, 5% density may be printed on the tone sheet. The "lines" indicates the lines formed by the dots running at a 45° angle when looking at the tone with the sheet positioned straight up and down. If the tone is 20-lined, then that means there are 20 lines of dots per inch-sized (2.54 cm) block of tone. As this number rises to 27.5, 30, etc., the dots become smaller and the print, finer. Dots that are too small may not show up clearly during the printing process. Strive for a maximum of 60 to 65 lines if the manga is to appear in newspaper print or 80 to 120 lines for magazines. It should be noted that the type of paper to be used for the magazine is extremely important when selecting tone.



### Random Dots

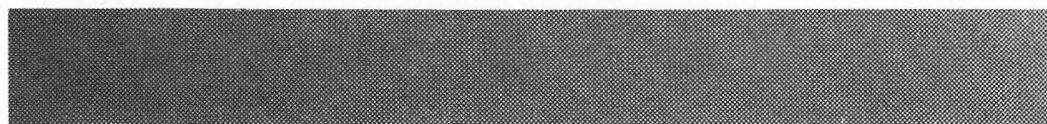
No. 684

Random dot patterns are also referred to as "mezzotint." The patterns come in 25%, 50%, and 75% densities. This is a popular and extremely versatile pattern, and enlarging or reducing the print size can produce interesting effects.



### Gradation

No. 760



No. 742

742, 760, and 764 are the most popular gradation tones. Called by slang-terms such as "*chibi-gura*" ("mini-gradation") or "*obi-gura*" ("band gradation"), there is a rich range of gradation tones available, making this a popular type of tone.

### White No. 33



Using white print instead of black for the dots, this is a popular tone laid over the drawing when an effect similar to a *bokashi* is desired. Popular dot and ink line patterns appear in Letraset's Screentone and Screentone II series.

### No. 41

Enlarging and Reducing Tone Prints I

A final digit of 1 indicates a 10% value density.



100%



Reduced to 80% of the original



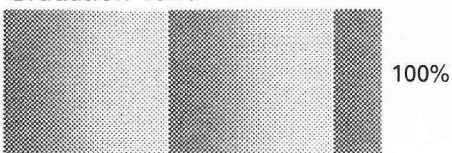
Reduced to 50% of the original

Typically, for *manga* and illustrations, the artwork is executed on a scale larger than the final printing format in order to elevate the intricacy of the printed copy. The concern in reducing the original draft is that the dots may lose their form during the printing process. For example, in the case of Screentone, the following will result:

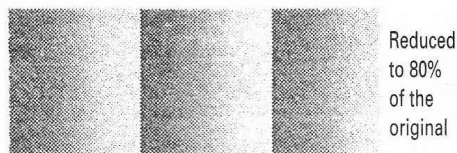


The reason general periodicals reduce the size of the original draft when they print the manga is because it looks better. Stated another way, it is easier to work with printing when it has been enlarged. Try to work on a scale at 125% of the printed size when drawing the original draft in a format other than the standard. Particular note must be paid to reduction when working with gradation tones. This is because while one portion of the gradation tone may print clearly, the other portions of the tone may lose their integrity.

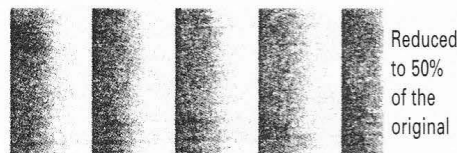
#### Gradation Tone



100%

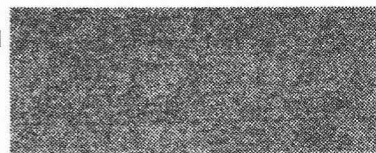
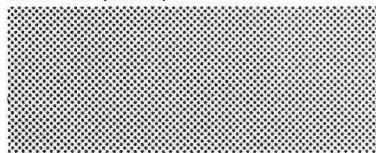


Reduced to 80% of the original



Reduced to 50% of the original

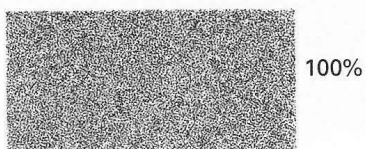
#### No. 43 (30%)



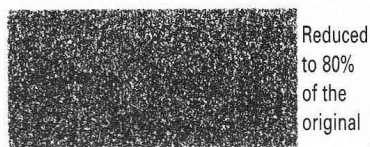
### Enlarging and Reducing Tone Prints II

With only a single layer of tone, it is fairly simple to estimate what the final appearance of the printed draft will be after enlargement or reduction of the original. However, in the case of layered tone sheets, even a seasoned expert will have difficulty guessing. On this page are presented the most common forms of layering. In the case of random dots, if the tone is reduced too much, the result will look like nothing more than a common dot pattern, negating the reason for using the random dots in the first place. There is no risk of a moiré effect resulting. Furthermore, there is also the risk that extremely light tone at a 5% value density will be lost and indiscernible. So take care when selecting tone.

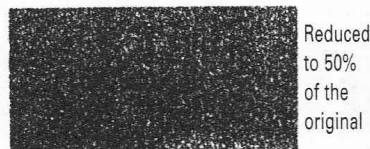
#### No. 684



100%

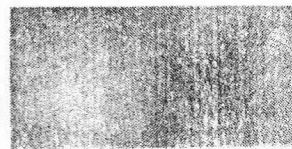
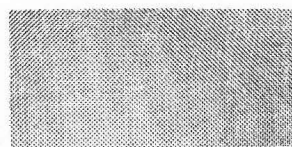
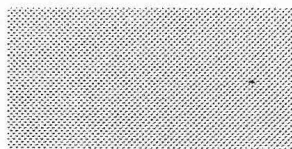


Reduced to 80% of the original



Reduced to 50% of the original

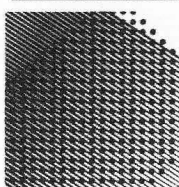
#### ST61 (layered)



### Layering Tone

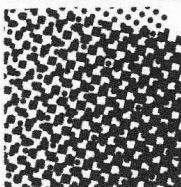
The "moiré effect" is a printing term derived from the French moiré, which refers to silk and other sheer fabrics giving "watered" appearance, results when 2 films or screen tones with evenly spaced lines or regular line patterns are laid one over the other. While this is generally not regarded as a desired effect in printing, it can be exploited and used effectively in artwork.

#### Dots + Lines

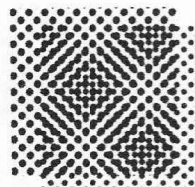


No. 102 + LT 266

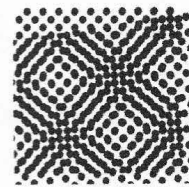
#### Dots + Dots



Dot + Gradation  
No. 102 + No. 703

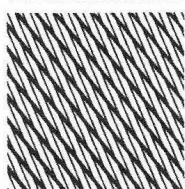


Effect created using Screen tones of differing dot line count  
No. 103 + No. 102

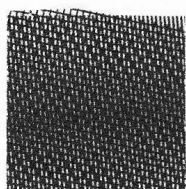


Effect created using identical Screen tones  
No. 103 + No. 103

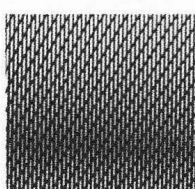
#### Lines + Lines



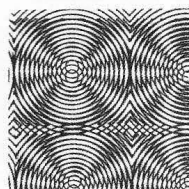
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No. 301 + LT 266



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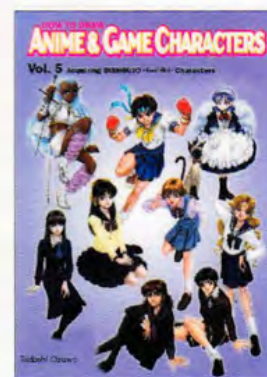
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